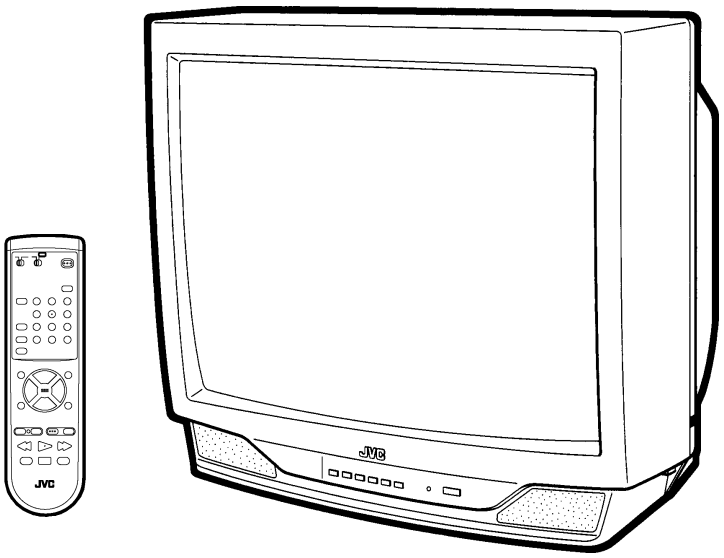
JVC

SERVICE MANUAL

COLOR TELEVISION

BASIC CHASSIS
FD

AV-27230/S
AV-27230/R



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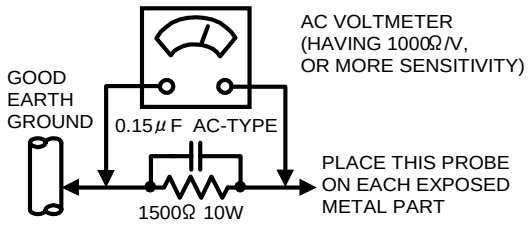
SPECIFICATIONS

Items	Contents
	AV-27230/S **AV-27230/R**
Dimensions (W × H × D)	25-3/4" × 23-3/8" × 19-1/2" / 654mm × 593mm × 494mm
Mass	68.5 lbs / 31.1 kg
Reception Format	NTSC, BTSC System (Multi-Channel Sound)
Reception Range	
VHF, UHF	
VL Band	(02～06) 54MHz～88MHz
VH Band	(07～13) 174MHz～216MHz
UHF Band	(14～69) 470MHz～806MHz
CATV	
Low Band	(02～06, A-8) by (02～06&01) (54MHz～804MHz)
High Band	(07～13) by (07～13)
Mid Band	(A～1) by (14～22)
Super Band	(J～W) by (23～36)
Hyper Band	(W+1～W+28) by (37～64)
Ultra Band	(W+29～W+84) by (65～125)
Sub Mid Band	(A8, A4～A1) by (01, 96～99)
TV/CATV Total Channel	181 Channels
Intermediate Frequency	
Video IF Carrier	45.75MHz
Sound IF Carrier	41.25MHz (4.5MHz)
Color Sub Carrier	3.58MHz
Power Input	120V AC, 60Hz
Power Consumption	113W
Picture Tube	27" (68cm) Measured Diagonally
High Voltage	29kV±1kV (at zero beam current)
Speaker	2" × 3-1/2" / 5 × 9cm Oval type × 2
Audio Power Output	1.2W + 1.2W
Input terminal	
Input 1 S-Video	Y: 1Vp-p Positive (negative sync provided, when terminated with 75Ω)
	C: 0.286$V_{p\text{-}p}$ (burst signal, when terminated with 75Ω)
Video(V)	1Vp-p, 75Ω (RCA pin jack)
Audio(L, R)	500mVrms (-4dBs), High Impedance (RCA pin jack)
Input 2 Component Video	
Y, Pb, Pr	1Vp-p 75Ω(positive sync)
Input 3	
(Front) Video(V)	1Vp-p, 75Ω (RCA pin jack)
Audio(L, R)	500mVrms (-4dBs), High Impedance (RCA pin jack)
Output terminal	
Variable Audio Output (R/L)	More than 0～1550mVrms (+6dBs)
	Low impedance (400Hz when modulated 100%) (RCA pin jack)
Antenna terminal	75Ω(VHF/UHF) Terminal, F-Type Connector
Remote Control Unit	RM-C306-1A
	(AA/R6/UM-3 battery × 2)

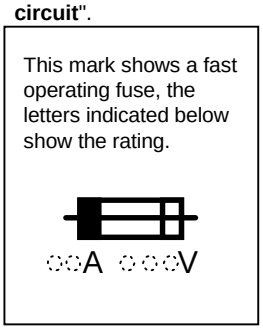
Design & specifications are subject to change without notice.

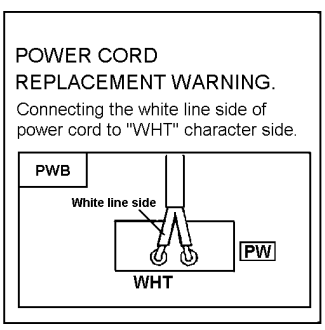
SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
4. **Use isolation transformer when hot chassis.**
   The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.
5. **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
   Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED(NEUTRAL) : (⏚) side GND and EARTH : (⏚) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
   If above note will not be kept, a fuse or any parts will be broken.
6. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
7. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
8. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.
9. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.
10. **Isolation Check**
    (Safety for Electrical Shock Hazard)
    After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
    (1) **Dielectric Strength Test**
    The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.
    (. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
    This method of test requires a test equipment not generally found in the service trade.
    (2) **Leakage Current Check**
    Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
    However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).
    ● **Alternate Check Method**
    Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
    However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



11. **High voltage hold down circuit check.**
    After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.
    See item "**How to check the high voltage hold down circuit**".





FEATURES

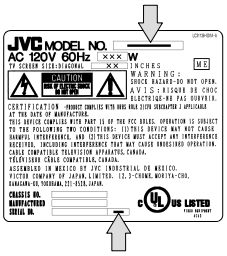
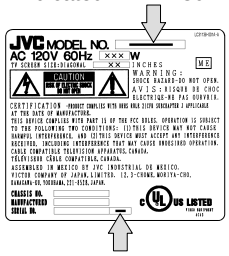
- New chassis design enables use of a single board with simplified circuitry.
- Users can make fun to connect the Digital Video Disk player with the component video signal input terminal.
- Provided with miniature tuner (TV/CATV).
- Multifunctional remote control permits picture adjustment.
- Adoption of the CHANNEL GUARD function prevents the specific channels from being selected, unless the “ID number” is key in.
- I^2C bus control utilizes single chip ICs.
- Adoption of the VIDEO STATUS function.
- Adoption of the ON/OFF TIMER function.
- Built-in V-CHIP system.
- With 75Ω V/U in common (F-Type) ANT Terminal.
- SLEEP TIMER for setting in real time.
- Closed-caption broadcasts can be viewed.
- Built-in MTS system.
- Built-in HYPER-SURROUND system.
- S-VIDEO input terminal for taking best advantage of Super VHS.
- Variable Audio output terminal.
- 2 LINE Digital Comb filter Improved picture quality.

MAIN DIFFERENCE LIST

⚠	Model name / Parts Name	AV-27230/S	AV-27230/R
	MAIN PWB	SFD-1003A-M2	SFD-1004A-M2
⚠	ITC TUBE	A68QDN891X001	A68ADT25X01

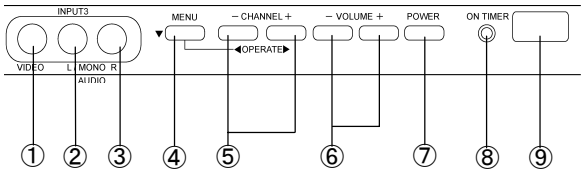
HOW TO IDENTIFY MODELS

The difference between AV-27230/S and AV-27230/R is in the PICTURE TUBE.
As the result of the difference in picture tube, the MAIN PWB also differs.

⚠	MODEL / Parts name	AV-27230/S	AV-27230/R
⚠	RATING LABEL	LC31139-001A-A	←
		Indicated AV-27230  Indicated “S”	Indicated AV-27230  Indicated “R”

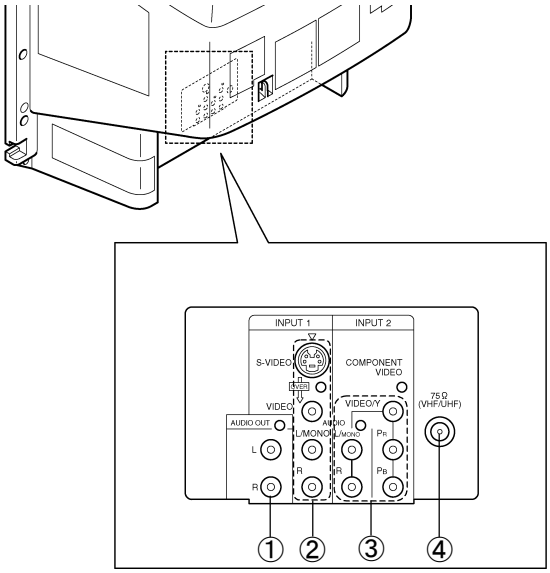
FUNCTIONS

■FRONT PANEL CONTROL



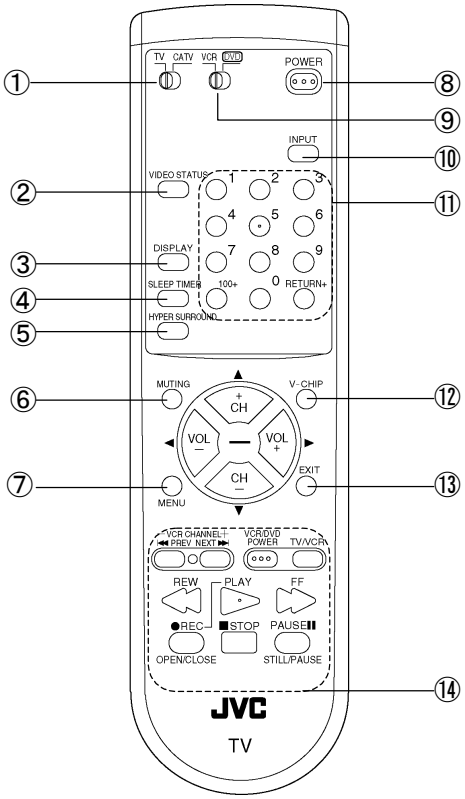
①VIDEO INPUT TERMINAL
②AUDIO L INPUT TERMINAL
③AUDIO R INPUT TERMINAL
④MENU KEY
⑤CHANNEL -/+ KEY (OPERATE KEY)
⑥VOLUME -/+ KEY
⑦POWER LED
⑧ON TIMER LED
⑨REMOCON WINDOW

■REAR TERMINAL



①AUDIO OUTPUT TERMINAL
②INPUT1 TERMINAL(S, V, L, R)
③INPUT2 TERMINAL(V/Y, PR, PB, L, R)
④AERIAL SOCKET

■REMOTE CONTROL UNIT [RM-C306]



①TV / CATV
②VIDEO STATUS
③DISPLAY
④SLEEP TIMER
⑤HYPER SURROUND
⑥MUTING
⑦MENU
⑧POWER
⑨VCR / DVD
⑩INPUT
⑪CHANNEL KEYS
⑫V-CHIP
⑬EXIT
⑭VCR CONTROL KEYS

SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

1. Disconnect the power plug from wall outlet.
2. As shown in the Fig.1, remove the **7** screws marked Ⓐ .
3. As shown in Fig.1, remove the **4** screws marked Ⓑ .
4. Then remove the REAR COVER toward you.

REMOVING THE MAIN PWB

- After removing the REAR COVER.

1. Slightly raise the both sides of the Main PWB by hand and remove the Main PWB from the front cabinet.
2. Withdraw the chassis backward.
   (If necessary, remove the wire clamp, connectors etc.)

REMOVING THE SPEAKER

- After removing the rear cover.

1. As shown in Fig. 1, removing the **2** screws marked Ⓒ **,** then remove the speaker.
2. Follow the same steps when removing the other hand speaker.

CHECKING THE PW BOARD

To check the PW Board from back side.

1. Pull out the chassis (refer to REMOVING THE MAIN PWB).
2. Erect the chassis vertically so that you can easily check the back side of the PW Board.

CAUTION

- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- **When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS' Y) is connected to the CRT SOCKET PW board.**

WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires together.
   Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

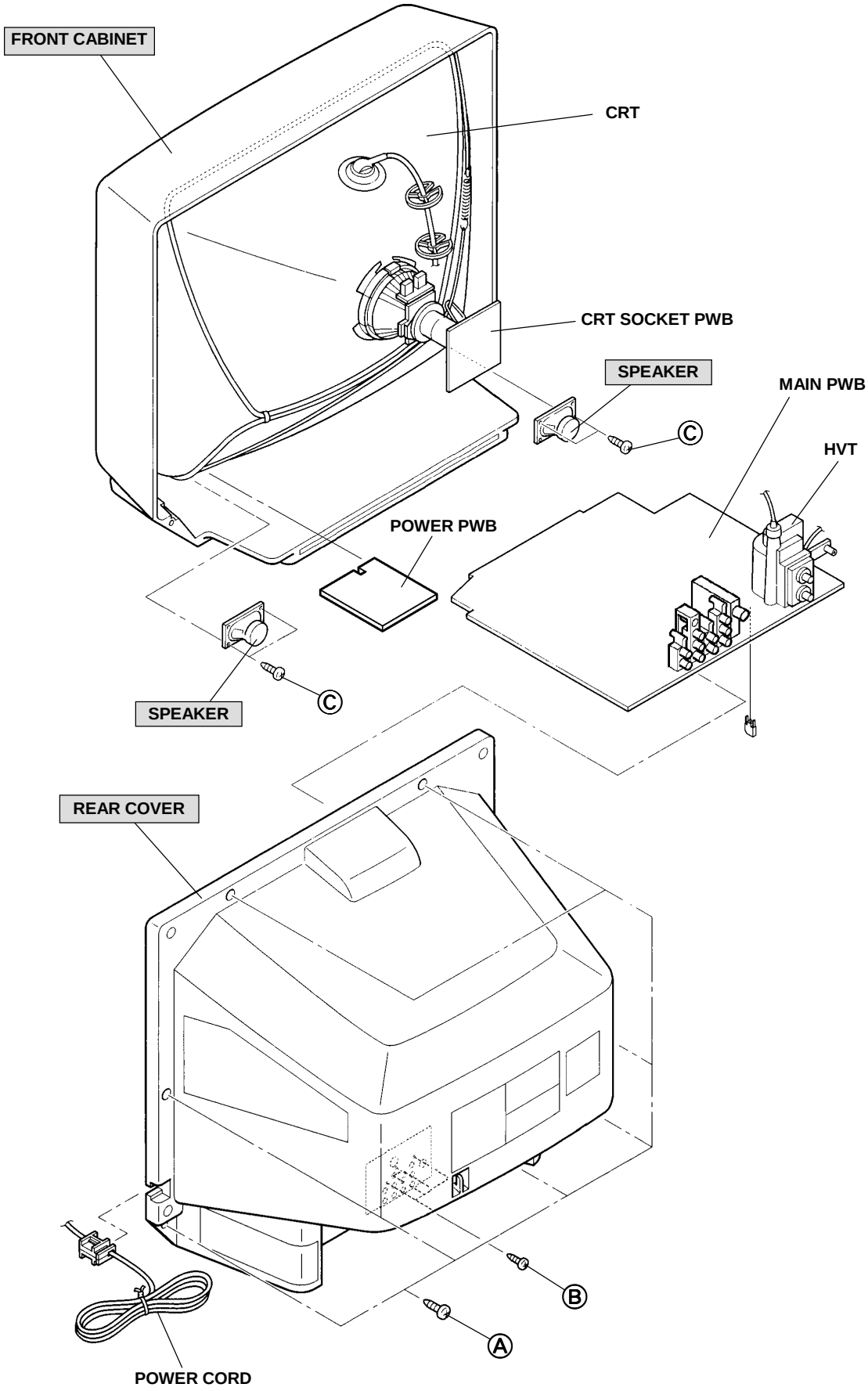

FRONT CABINET
CRT
CRT SOCKET PWB
SPEAKER
MAIN PWB
HVT
POWER PWB
SPEAKER
REAR COVER
POWER CORD
A
B
C
C

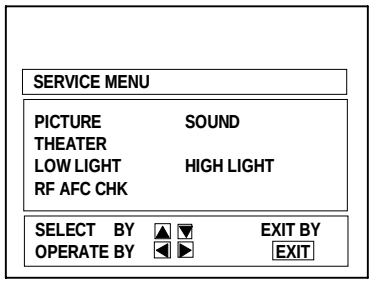
Fig.1

MEMORY IC REPLACEMENT

1. Memory IC

This model uses a memory IC.
This memory IC stores data for proper operation of the video and deflection circuits.
When replacing, be sure to use an IC containing this (initial value) data.

2. Memory IC replacement procedure

Procedure	Screen display
(1) Power off Switch off the power and disconnect the power cord from the outlet.	
(2) Replace the memory IC Initial value must be entered into the new IC.	
(3) Power on Connect the power cord to the outlet and switch on the power.	
(4) System constant check and setting 1) Press **SLEEP TIMER** key and, while the indication of "**SLEEP TIMER 0 MIN.**" is being displayed, press **DISPLAY** key and **VIDEO STATUS** key on the remote control unit simultaneously. 2) The SERVICE MENU screen of Fig.1 is displayed. 3) While the SERVICE MENU is displayed, again simultaneously press the **DISPLAY** and **VIDEO STATUS** keys to display the Fig.2 SYSTEM CONSTANT screen. 4) Refer to the SYSTEM CONSTANT table and check the setting items. Where these differ, select the setting item with the **UP/DOWN** (▲/▼) key and adjust the setting with the **LEFT/RIGHT** (◀/▶) keys. 5) After adjusting, release the **LEFT/RIGHT**(◀/▶) key to store the setting value. 6) Press the **EXIT** key twice to return the normal screen.	 Fig.1
(5) Receive channel setting Refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the receive channels (Channels Preset) as described.	
(6) User settings Check the user setting items according to Table 2. Where these do not agree, refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the items as described.	
(7) SERVICE MENU setting Verify what to set in the SERVICE MENU, and set whatever is necessary.(Fig.1) Refer to the SERVICE ADJUSTMENT for setting.	

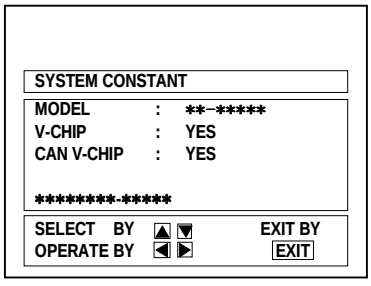


Fig.2

TABLE 1 (System Constant setting)

Setting item	Setting content	Setting value	
		AV-27230/S	**AV-27230/R**
MODEL	AV-27D302 → AV-27D202 → AV-20D202 → AV-27230 →	AV-27230	AV-27230
V-CHIP	YES ⇄ NO	YES	YES
CAN V-CHIP	YES ⇄ NO	YES	YES

TABLE 2 (User setting value)

Setting item	Setting value
1. Use remote controller keys	
POWER	ON
CHANNEL	CH 02
CHANNEL PRESET	See OPERATING INSTRUCTIONS.
VOLUME	10
TV/VIDEO(INPUT)	TV
DISPLAY	OFF
SLEEP TIMER	OFF
VIDEO STATUS	STANDARD
HYPER SURROUND	OFF
2. Setting of MENU	
TINT	CENTER
COLOR	CENTER
PICTURE	CENTER
BRIGHT	CENTER
DETAIL	CENTER
NOISE MUTING	ON
SET VIDEO STATUS	ALL CENTER
BASS	CENTER
TREBLE	CENTER
BALANCE	CENTER
MTS	STEREO
TV SPEAKER	ON
SET CLOCK	Unnecessary to set
ON/OFF TIMER	NO
LANGUAGE	ENGLISH
CLOSED CAPTION	OFF
BACKGROUND	BLACK
V2 COMPONENT IN	NO
AUTO TUNER SETUP	TUNER MODE : AIR
CHANNEL SUMMARY	Unnecessary to set
V-CHIP	OFF
V-CHIP RATINGS	ALL OFF
SET LOCK CODE	Unnecessary to set
UNRATED	VIEW

SERVICE ADJUSTMENTS

ADJUSTMENT PREPARATION

1. **You can make the necessary adjustments for this unit with either the Remote Control Unit or with the adjustment tools and parts as given below.**
2. **Adjustment with the Remote Control Unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.**
3. Make sure that AC power is turned on correctly.
4. Turn on the power for set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
5. Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
6. Never touch any adjustment parts which are not specified in the list for this adjustment - variable resistors, transformers, condensers, etc.
7. Presetting before adjustment.
   Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit:

VIDEO STATUS	STANDARD
BASS, TREBLE, BALANCE	CENTER
HYPER SURROUND	OFF
TINT, COLOR, PICTURE, BRIGHT, DETAIL	CENTER

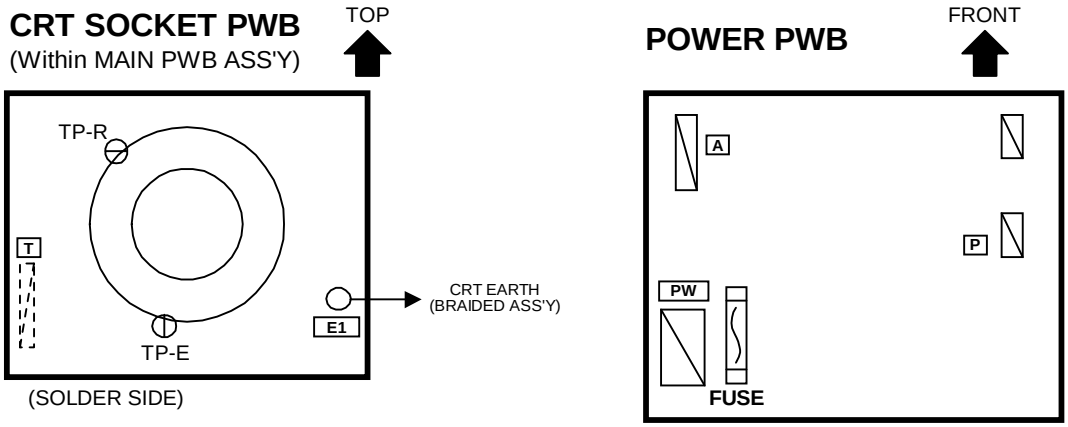
ADJUSTMENT EQUIPMENT

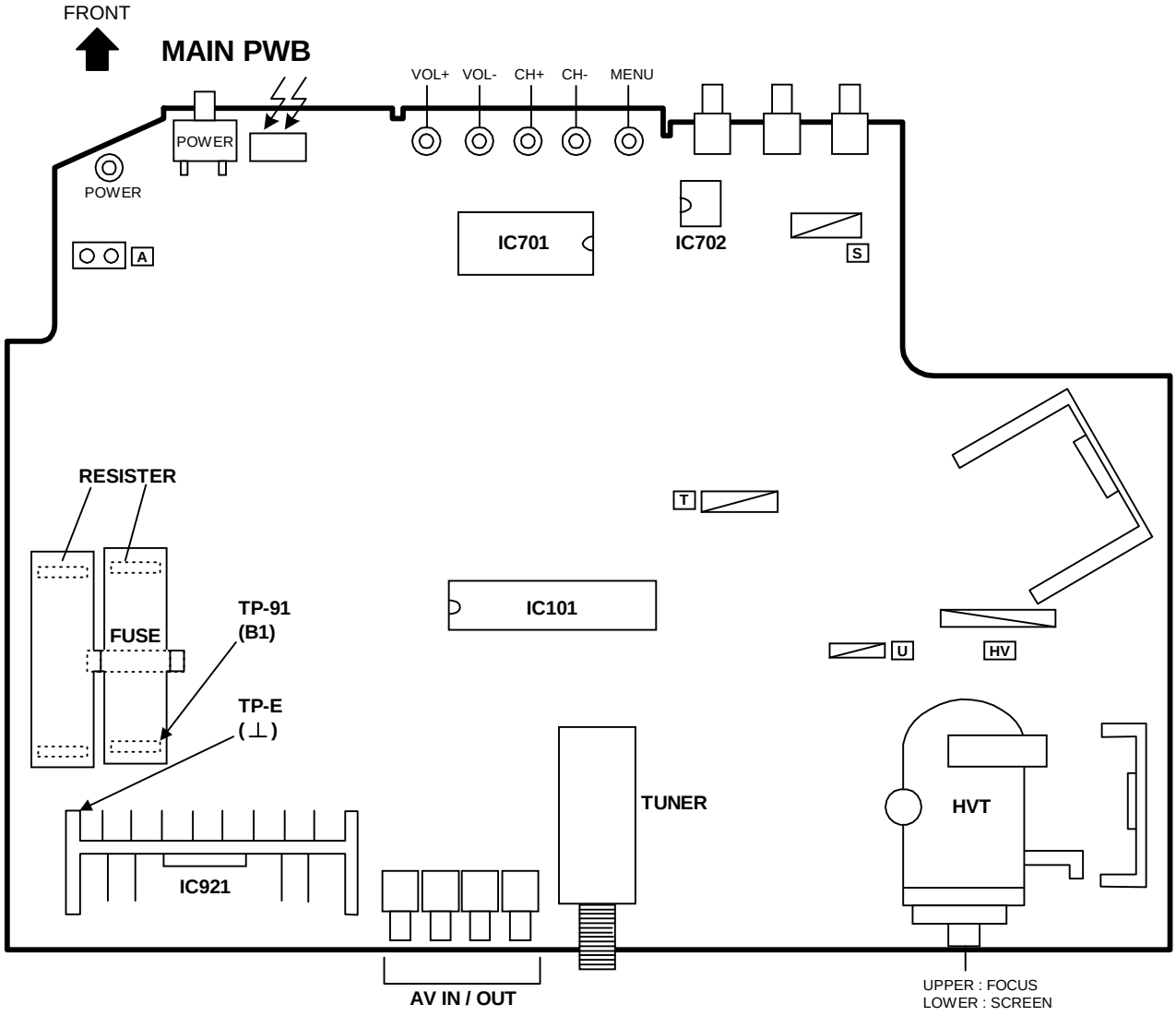
1. DC voltmeter (or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [NTSC]
4. Remote control unit
5. TV audio multiplex signal generator.
6. Frequency counter

ADJUSTMENT ITEMS

Adjustment items	Adjustment items	Adjustment items
B1 POWER SUPPLY	WHITE BALANCE (High Light)	MTS STEREO VCO
RF. AGC	SUB BRIGHT	MTS SAP VCO
FOCUS	SUB CONTRAST	MTS FILTER check
V. SIZE	SUB COLOR	MTS SEPARATION
H. POSITION	SUB TINT	
WHITE BALANCE (Low Light)	MTS INPUT LEVEL check	

ADJUSTMENT LOCATIONS





BASIC OPERATION OF SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

2. SERVICE MENU ITEMS

In general, basic setting (adjustments) items or verifications are performed in the SERVICE MENU.

- PICTURE ····· This sets the setting values (adjustment values) of the VIDEO/CHROMA and DEFLECTION circuits.
- SOUND ····· This sets the setting values (adjustment values) of the AUDIO circuit.
- THEATER ····· This is used when the THEATER MODE is adjusted.
- LOW LIGHT····· This sets the setting values (adjustment values) of the WHITE BALANCE circuit.
- HIGH LIGHT ····· This sets the setting values (adjustment values) of the WHITE BALANCE circuit.
- RF AFC CHK····· This is used when the IF VCO is adjusted. **[Do not adjust]**

3. Basic Operations of the SERVICE MENU

(1) How to enter the SERVICE MENU.

Press **SLEEP TIMER** key and, while the indication of "**SLEEP TIMER 0 MIN.**" is being displayed, press **DISPLAY** key and **VIDEO STATUS** key on the remote control unit simultaneously to enter the **SERVICE MENU** screen ① shown in the next figure page.

(2) SERVICE MENU screen selection

Press the **UP / DOWN**(▲/▼) key to select any of the following items.

- PICTURE
- SOUND
- THEATER
- LOW LIGHT
- HIGH LIGHT
- RF AFC CHK

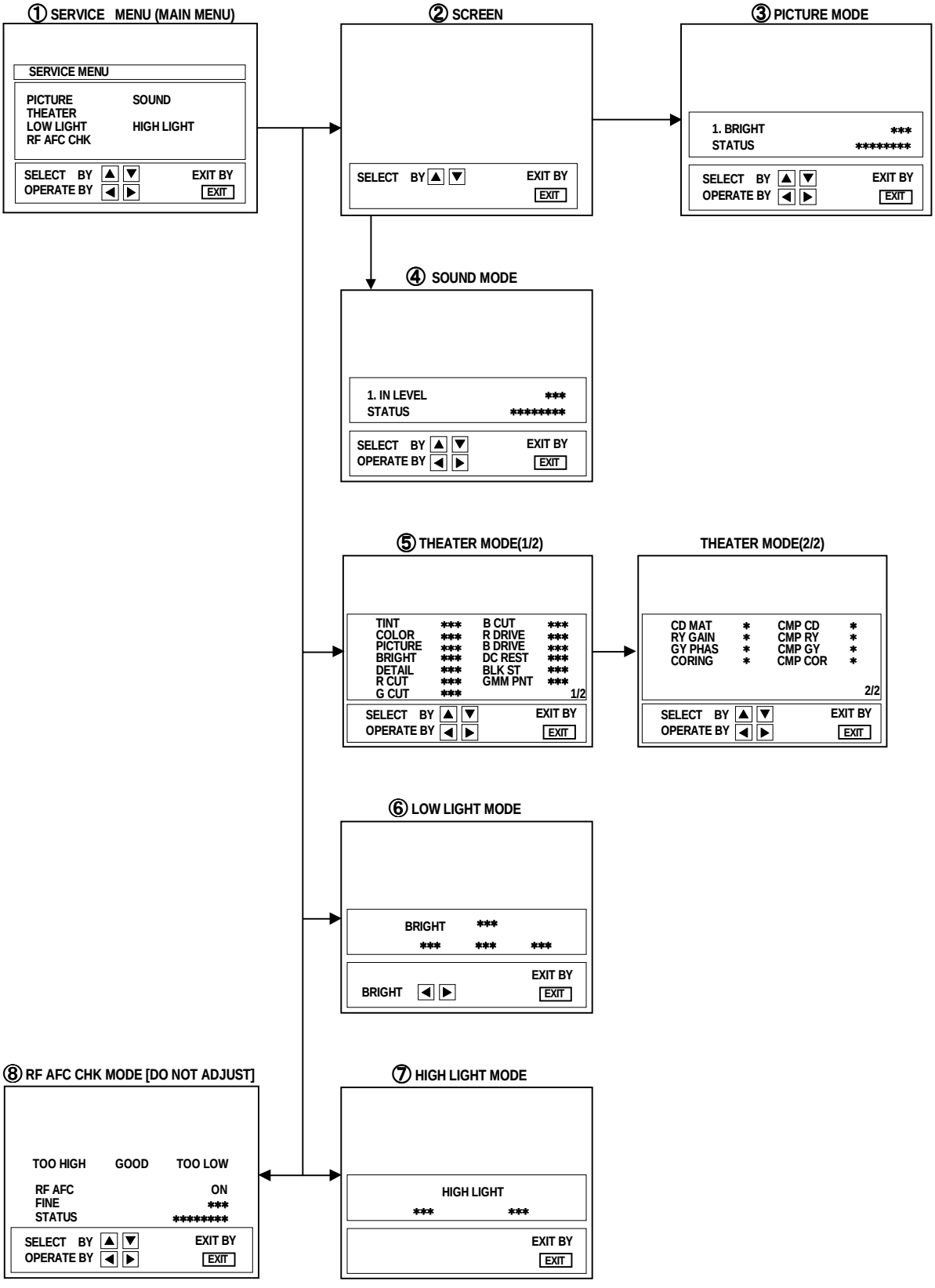
(3) Enter the any setting (adjustment) mode

- **PICTURE and SOUND mode**

1) If select any of PICTURE or SOUND items, and the **LEFT / RIGHT**(◀/▶) key is pressed from SERVICE MENU (MAIN MENU), the screen ② will be displayed as shown in figure page later.
2) Then the **UP / DOWN**(▲/▼) key is pressed, the PICTURE mode screen ③ or the SOUND mode screen ④ is displayed, and the PICTURE or SOUND setting can be performed.

- **THEATER, LOW LIGHT, HIGH LIGHT and RF AFC CHK mode**

1) If select any of THEATER / LOW LIGHT / HIGH LIGHT / RF AFC CHK items, and the **LEFT / RIGHT**(◀/▶) key is pressed from SERVICE MENU (MAIN MENU), the screens ⑤ ⑥ ⑦ ⑧ will be displayed as shown in figure page later.
2) Then the settings or verifications can be performed.

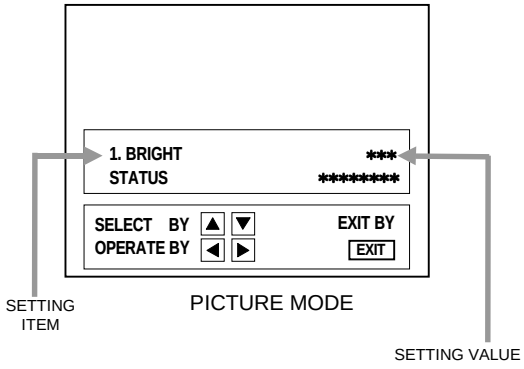

① SERVICE MENU (MAIN MENU)
SERVICE MENU
PICTURE
THEATER
LOW LIGHT
RF AFC CHK
SOUND
HIGH LIGHT
SELECT BY
OPERATE BY
EXIT BY
EXIT
② SCREEN
SELECT BY
EXIT BY
EXIT
③ PICTURE MODE
1. BRIGHT ***
STATUS ********
SELECT BY
OPERATE BY
EXIT BY
EXIT
④ SOUND MODE
1. IN LEVEL ***
STATUS ********
SELECT BY
OPERATE BY
EXIT BY
EXIT
⑤ THEATER MODE(1/2)
TINT *** B CUT ***
COLOR *** R DRIVE ***
PICTURE *** B DRIVE ***
BRIGHT *** DC REST ***
DETAIL *** BLK ST ***
R CUT *** GMM PNT ***
G CUT *** 1/2
SELECT BY
OPERATE BY
EXIT BY
EXIT
THEATER MODE(2/2)
CD MAT * CMP CD *
RY GAIN * CMP RY *
GY PHAS * CMP GY *
CORING * CMP COR *
2/2
SELECT BY
OPERATE BY
EXIT BY
EXIT
⑥ LOW LIGHT MODE
BRIGHT ***
*** *** ***
EXIT BY
BRIGHT
EXIT
⑧ RF AFC CHK MODE [DO NOT ADJUST]
TOO HIGH GOOD TOO LOW
RF AFC ON
FINE ***
STATUS ********
SELECT BY
OPERATE BY
EXIT BY
EXIT
⑦ HIGH LIGHT MODE
HIGH LIGHT
*** ***
EXIT BY
EXIT

(4) Setting method

1) **UP / DOWN** (▲/▼)key.
   Select the SETTING ITEM.

2) **LEFT / RIGHT**(◀/▶) key.
   Setting (adjust) the SETTING VALUE of the SETTING ITEM.
   When the key is released the SETTING VALUE will be stored (memorized).

3) EXIT key
   Return to the previous screen.

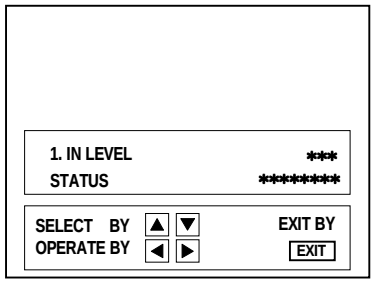


PICTURE MODE

(5) Releasing SERVICE MENU

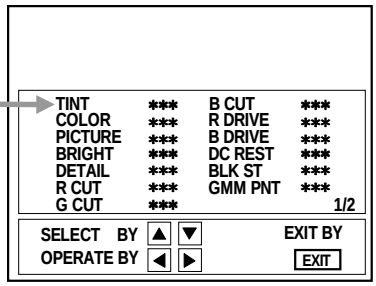
1) After returning to the SERVICE MENU upon completion of the setting (adjustment) work, press the EXIT key again.

★ The settings for LOW LIGHT and HIGH LIGHT are described in the WHITE BALANCE page of ADJUSTMENT.

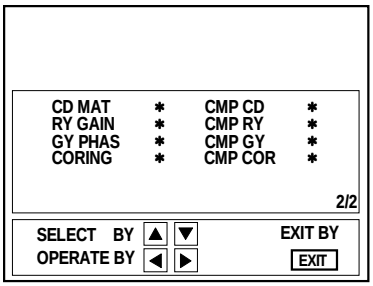


SOUND MODE

The letter of the selected Items are displayed in yellow.



THEATER MODE(1/2)



THEATER MODE(2/2)

INITIAL SETTING VALUE OF SERVICE MENU

1. Adjustment of the SERVICE MENU is made on the basis of the initial setting values; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.
2. Do not change the initial setting values of the setting (adjustment) items not listed in “ADJUSTMENT”.

PICTURE MODE

- The 5 setting items in the video mode No.6 EXT BRI, No.7 EXT PICT, No.8 EXT CLR, No.9 EXT TINT and No.10 EXT DTL are linked to the items in the TV MODE No.1 BRIGHT, No.2 PICTURE, No.3 COLOR, No.4 TINT and No.5 TV DTL respectively. When the setting items in the TV mode are adjusted, the values in the setting items in the video mode are revised automatically to the same values in the TV mode. (The initial setting values given in parenthesis are offset values.)
- When the 5 items (No.6, 7, 8, 9 and 10) are adjusted in the video mode, the setting values in each item are changed independently.

No.	Setting (Adjustment) items	Variable range	Initial setting value	
			AV-27230/S	AV-27230/R
1.	BRIGHT	000～127	064	064
2.	PICTURE	000～127	100	100
3.	COLOR	000～127	055	055
4.	TINT	000～127	087	087
5.	TV DTL	000～63	050	050
6.	EXT BRI.	±025	±000	±000
7.	EXT PICT.	±025	+002	+002
8.	EXT CLR	±025	±000	±000
9.	EXT TINT	±025	-005	-005
10.	EXT DTL	000～063	050	050
11.	CMP BRI	±025	-001	-001
12.	CMP PICT	±025	±000	±000
13.	CMP CLR	000～127	072	072
14.	CMP TINT	000～127	037	037
15.	CMP DTL	000～063	050	050
16.	CMP R CT	±025	+008	+008
17.	CMP G CT	±025	±000	±000
18.	CMP B CT	±025	+008	+008
19.	CMP R DR	±025	±000	±000
20.	CMP B DR	±025	-002	-002
21.	WPL	000 / 001	001	001
22.	C TRAP	000 / 001	000	000
23.	CORING	000 / 001	001	001
24.	CMP CORI	000 / 001	001	001
25.	TV SHAP	000 / 001	001	001
26.	EXT SHAP	000 / 001	001	001
27.	CMP SHAP	000 / 001	001	001
28.	RGB CONT	000～063	016	016
29.	TV ID S	000 / 001	000	000
30.	EXT ID S	000 / 001	000	000

No.	Setting (Adjustment) items	Variable range	Initial setting value	
			AV-27230/S	AV-27230/R
31.	F ID	000 / 001	000	000
32.	Y MUTE	000 / 001	000	000
33.	SUB CONT	000～015	008	008
34.	R Y GAIN	000 / 001	001	001
35.	CMP R Y	000 / 001	001	001
36.	G Y PHAS	000 / 001	001	001
37.	CMP G Y	000 / 001	001	001
38.	CD MATRI	000～003	003	003
39.	CMP CD M	000～003	001	001
40.	BLK ST	000～003	001	001
41.	DC REST	000～003	001	001
42.	CLR GMM	000 / 001	000	000
43.	UV / CBCR	000 / 001	000	000
44.	AT FLESH	000 / 001	000	000
45.	ABL GAIN	000～003	000	000
46.	ABL ST P	000～003	003	003
47.	RGB ABCL	000 / 001	001	001
48.	TV B/T	000 / 001	001	001
49.	EXT B/T	000 / 001	000	000
50.	GMM PNT	000～003	003	003
51.	BUZZ	000 / 001	000	000
52.	RF AGC	000～063	045	045
53.	AFT SENS	000 / 001	001	001
54.	R/G DRV	000 / 001	001	001
55.	BLK SW	000 / 001	000	000
56.	V S COR	000～015	011	011
57.	V LIN	000～015	012	012
58.	V SIZE	000～127	037	037
59.	V AGC	000 / 001	000	000
60.	TV AFC	000～003	001	001
61.	EXT AFC	000～003	002	002
62.	V POSI	000～007	000	000
63.	H POSI	000～031	015	015
64.	TV V FR	000～003	000	000
65.	EXT V FR	000～003	003	003
66.	STND BY	000 / 001	000	000
67.	V RMP RE	000 / 001	001	001
68.	V 48HZ	000 / 001	000	000
69.	V EHT	000～007	000	000
70.	H EHT	000～007	000	000

No.	Setting (Adjustment) items	Variable range	Initial setting value	
			AV-27D230/S	AV-27230/R
71.	V BLK L	000～003	000	000
72.	V BLK U	000～003	001	001
73.	CCD IN	000 / 001	000	000
74.	H BLK	000 / 001	000	000
75.	OVER MD	000 / 001	001	001
76.	APACON L	000 / 001	001	001
77.	RF S/N T	000 / 001	000	000
78.	EX S/N T	000 / 001	000	000
79.	R S/N V1	000～063	000	000
80.	R S/N V2	000～063	000	000
81.	R S/N V3	000～063	000	000
82.	R S/N V4	000～063	000	000
83.	E S/N V1	000～063	000	000
84.	E S/N V2	000～063	000	000
85.	E S/N V3	000～063	000	000
86.	E S/N V4	000～063	000	000
87.	COR LEV	000～003	000	000
88.	VNR CHK	000～255	000	000
89.	VC SN TM	000～255	000	000
90.	VC SN SP	000～255	000	000
91.	CH MUTE	000 / 001	000	000
92.	OSD HP	000～031	018	018
93.	OSD VP	000～031	008	008
94.	FM TRAP	000 / 001	000	000
95.	OSC SEL	000 / 001	001	001
96.	SD SEL	000 / 001	001	001
97.	VF LK EX	000 / 001	000	000
98.	F LOCK	000～002	002	002
99.	AFC HIGH	000～064	031	031

SOUND MODE

No.	Setting (Adjustment) item	Variable range	Initial setting value	
			AV-27230/S	AV-27230/R
1.	IN LEVEL	000～063	024	024
2.	FH MON	000 / 001	000	000
3.	ST VCO	000～063	032	032
4.	PILOT	000 / 001	000	000
5.	FILTER	000～063	027	027
6.	LOW SEP	000～063	014	014
7.	HI SEP	000～063	021	021
8.	5FH MON	000 / 001	000	000
9.	SAP VCO	000～063	034	034
10.	BBE BASS	±010	-001	-001
11.	BBE TRE	±010	-001	-001

THEATER MODE

Setting (Adjustment) item	Variable range	Initial setting value	
		AV-27230/S	AV-27230/R
TINT	±20	-06	-06
COLOR	±20	-05	-05
PICTURE	±50	-08	-08
BRIGHT	±20	±00	±00
DETAIL	±20	+03	+03
R CUT	±20	±00	±00
G CUT	±20	±00	±00
B CUT	±20	±00	±00
R DRIVE	-99～+99	+06	+06
B DRIVE	-99～+99	-18	-18
DC REST	0～3	+01	+01
BLK ST	0～3	±00	±00
GMM PNT	0～3	+01	+01
CD MAT	0～3	+01	+01
RY GAIN	0～1	+01	+01
GY PHAS	0～1	±00	±00
CORING	0～1	+01	+01
CMP CD	0～3	+01	+01
CMP RY	0～1	+01	+01
CMP GY	0～1	±00	±00
CMP COR	0～1	+01	+01

LOW LIGHT MODE

Setting (Adjustment) item	Variable range	Initial setting value
R CUTOFF	0～255	85
G CUTOFF	0～255	85
B CUTOFF	0～255	85

HIGH LIGHT MODE

Setting (Adjustment) item	Variable range	Initial setting value
G DRIVE	0 ～ 255	60
B DRIVE	0 ～ 255	60

RF AFC CHECK MODE

Setting (Adjustment) item	Variable range	Initial setting value
RF AFC	ON / OFF	ON
FINE	FIXED	FIXED

DO NOT ADJUST

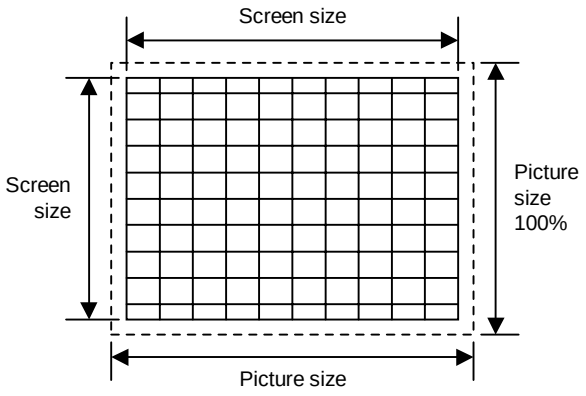
■ADJUSTMENTS

B1 POWER SUPPLY

Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 POWER SUPPLY	**DC Voltmeter**	**TP-91 (B1)** **TP-E(⊥)**		1. Receive a black-and-white signal. 2. Connect the DC Voltmeter to TP-91 (B1) and TP-E(⊥). 3. Confirm that the voltage is DC134V$^{+2V}_{-2.5V}$.

ADJUSTMENT OF VIDEO / CHROMA, DEFLECTION CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
RF. AGC adjustment			**No.52 RF AGC**	1. Receive a broadcast. 2. Select “No.52 RF AGC” of the PICTURE MODE. 3. Press the MUTING key and turn off the color. 4. With the MENU LEFT key, get noise in the screen picture. (0 side of setting value) 5. Press the MENU RIGHT key and stop when noise disappears from the screen. 6. Change to other channels and make sure that there is no irregularity. 7. Press the MUTING key and get color out.
FOCUS adjustment	**Signal generator**		**FOCUS VR [In HVT]**	1. Receive a crosshatch signal. 2. While looking at the screen, adjust FOCUS VR so that the vertical and horizontal lines will be clear and in fine detail. 3. Make sure that the picture is in focus even when the screen gets darkened.

<table>
<tr><th>Item</th><th>Measuring instruments</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>V.SIZE Adjustment</td><td>Signal generator</td><td></td><td>No.58 V.SIZE</td><td>1. Receive a crosshatch signal.
2. Select No.58 V.SIZE in the PICTURE MODE.
3. Set the initial setting value of No.58 V.SIZE with the LEFT / RIGHT key of the MENU.
4. Adjust No.58 V.SIZE until the vertical screen size becomes the value as shown table below.
 

<table><tr><th>Application model</th><th>Vertical screen size</th></tr><tr><td>AV-27230/S</td><td>89.0%</td></tr><tr><td>AV-27230/R</td><td>92.0%</td></tr></table></td></tr>
<tr><td>H.POSITION Adjustment</td><td>Signal generator</td><td></td><td>No.63 H.POSI</td><td>1. Receive a crosshatch signal.
2. Select the No.63 H.POSI of the PICTURE MODE.
3. Set the initial setting value of the No.63 H.POSI with the LEFT / RIGHT key of the MENU.
4. Adjust the No.63 H.POSI until the screen will be horizontally centered.</td></tr>
</table>

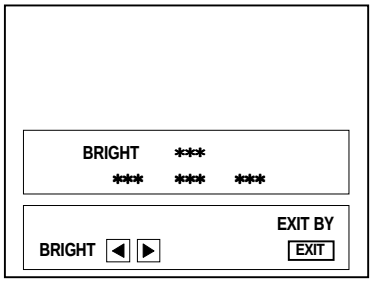
<table>
<tr><th>Item</th><th>Measuring instruments</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>WHITE BALANCE (Low Light) Adjustment</td><td>Signal generator</td><td></td><td>BRIGHT

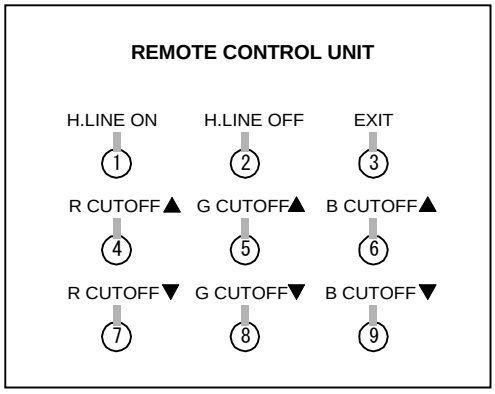
R. CUTOFF
G. CUTOFF
B. CUTOFF

SCREEN VR
[In HVT]</td><td>1. Receive a black-and-white signal.(Color off)
2. Select the LOW LIGHT MODE from the SERVICE MENU.
3. Set the initial setting value of BRIGHT with the LEFT / RIGHT key of the remote control unit.
4. Set the initial setting value of R CUTOFF, G CUTOFF and B CUTOFF with the ④or⑦key(R), ⑤or⑧key(G), ⑥or⑨key(B) of the remote control unit.
5. Display a single horizontal line by pressing the ①key of the remote control unit.
6. Turn the screen VR all the way to the left.
7. Turn the screen VR gradually to the right from the left until either one of the red, blue or green colors appears faintly.
8. Adjust the two colors which did not appear until the single horizontal line that is displayed becomes white using the ④ to ⑨ keys of the remote control unit.
9. Turn the screen VR to where the single horizontal line glows faintly.
10. Press the ② key to return to the regular screen.

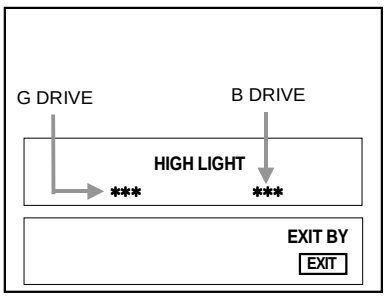
∗ The ③ EXIT key is the cancel key for the WHITE BALANCE.</td></tr>
<tr><td>WHITE BALANCE (High Light) Adjustment</td><td>Signal generator</td><td></td><td>G. DRIVE
B. DRIVE</td><td>1. Receive a monoscope pattern signal.
2. Select the【HIGH LIGHT】MODE in the SERVICE MENU.
3. Set the initial setting value of G DRIVE and B DRIVE with the ④, ⑦ and ⑥, ⑨ keys of the remote control unit.
4. Adjust the screen until it becomes white using the ④, ⑦, ⑥ and ⑨ keys of the remote control unit.
∗ The ③ EXIT key is the cancel key for the WHITE BALANCE mode.</td></tr>
</table>

[LOW LIGHT] MODE



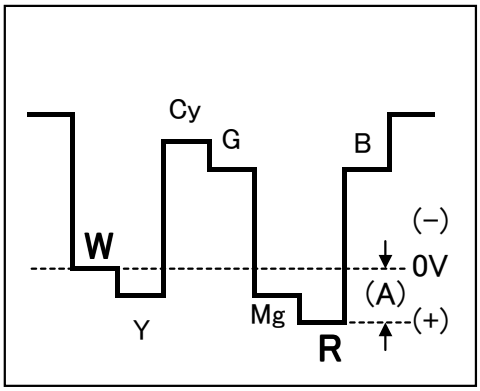


[HIGH LIGHT] MODE



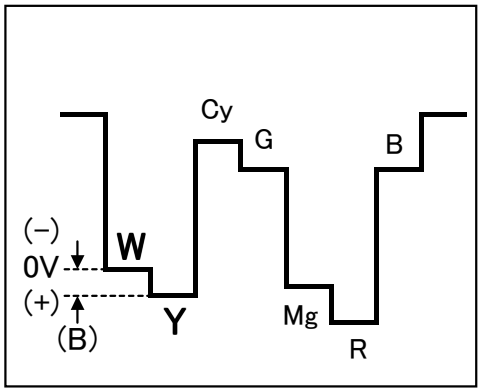
Remote Control Unit Key Operation
① key : H.LINE ON
② key : H.LINE OFF
③ key : EXIT
④ key : G DRIVE ▲ ⑦ key : G DRIVE ▼
⑥ key : B DRIVE ▲ ⑨ key : B DRIVE ▼

Item	Measuring instruments	Test point	Adjustment part	Description
SUB BRIGHT Adjustment			**No.1 BRIGHT**	1. Receive a broadcast. 2. Select No.1 BRIGHT of the PICTURE MODE. 3. Set the initial setting value of the No.1 BRIGHT with the LEFT / RIGHT key of the MENU. 4. If the brightness is not best with the initial setting value, make fine adjustment of the No.1 BRIGHT until you get the optimum brightness.
SUB CONTRAST Adjustment			**No.2 PICTURE**	1. Receive a broadcast. 2. Select No.2 PICTURE of the PICTURE MODE. 3. Set the initial setting value of the No.2 PICTURE with the LEFT / RIGHT key of the MENU. 4. If the contrast is not best with the initial setting value, make fine adjustment of the No.2 PICTURE until you get the optimum contrast.
SUB COLOR adjustment	**Signal generator Oscilloscope Remote control unit**	**TP-R TP-E(⏚) [CRT SOCKET PWB]**	**No.3 COLOR**	**[Method of adjustment without measuring instrument]** 1. Receive a broadcast. 2. Select “No.3 COLOR” of the PICTURE MODE. 3. Set the initial setting value of the “No.3 COLOR” with the LEFT/RIGHT key of the MENU. 4. If the color is not the best with the Initial setting value, make fine adjustment of the “No.3 COLOR” until you get the optimum color.
				[Method of adjustment using measuring instrument] 1. Input the full field color bar signal (75% white). 2. Select “No.3 COLOR” to the PICTURE MODE. 3. Set the initial setting value of the “No.3. COLOR” with the LEFT/RIGHT key of the MENU. 4. Connect the oscilloscope between TP-R and TP-E. 5. Adjust COLOR and bring the value of **(A)** in the illustration to the voltage **+20V** (V_{W-R}).



Application Model	COLOUR adjustment voltage
AV-27230/S	+20V
AV-27230/R	+20V

Item	Measuring instruments	Test point	Adjustment part	Description
SUB TINT adjustment	**Signal generator Oscilloscope Remote control unit**	**TP-R TP-E(⏚) [CRT SOCKET PWB]**	**No.4 TINT**	**[Method of adjustment without measuring instrument]** 1. Receive a broadcast. 2. Select “No.4 TINT” of the PICTURE MODE. 3. Set the initial setting value of the “No.4 TINT” with the LEFT/RIGHT key of the MENU. 4. If the tint is not the best with the initial setting value, make fine adjustment of the “No.4 TINT” until you get the optimum tint.
				[Method of adjustment using measuring instrument] 1. Input the full field color bar signal (75% white). 2. Select “No.4 TINT” to the PICTURE MODE. 3. Set the initial setting value of the “No.4 TINT” with the LEFT/RIGHT key to the MENU. 4. Connect the oscilloscope between TP-R and TP-E. 5. Adjust TINT and bring the value of **(B)** in the illustration to the voltage **+17V** (V_{W-Y}).

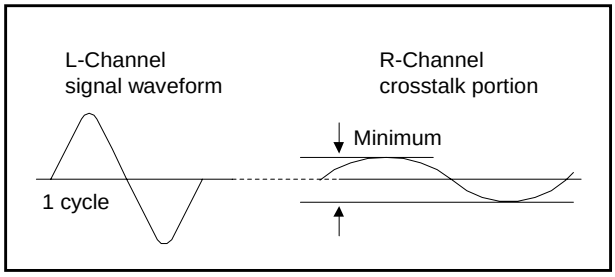


Application Model	COLOUR adjustment voltage
AV-27230/S	+17V
AV-27230/R	+17V

ADJUSTMENT OF MTS CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
MTS INPUT LEVEL check			**No.1 IN LEVEL**	1. Select the “No.1 IN LEVEL” of the SOUND MODE. 2. Verify that the “No.1 IN LEVEL” is set at its initial setting value.
MTS STEREO VCO adjustment	**Signal generator** **Frequency counter**	**R OUT [AUDIO OUT]**	**No.2 FH MON.** **No.3 ST VCO**	1. Receive a RF signal (nonmodulated sound signal) from the antenna terminal. 2. Select the “No.2 FH MON.” of SOUND MODE, and change the setting value from 0 to 1. 3. Connect the Frequency Counter to R OUT RCA pin of the AUDIO OUT. 4. Select the “No.3 ST VCO”. 5. Set the initial setting value of the “No.3 ST VCO” with the LEFT/RIGHT key of the menu. 6. Adjust the “No.3 ST VCO” so that the Frequency Counter will display 15.73kHz±0.1kHz. 7. Select the “No.2 FH MON.” of the SOUND MODE, and reset the setting value from 1 to 0.
MTS SAP VCO adjustment	**Signal generator** **Frequency counter**	**【MPX】 Connector** **【4】pin SDA** **【3】pin GND** **R OUT [AUDIO OUT]**	**No.8 5FH MON.** **No.9 SAP VCO**	1. Receive a RF signal (non modulated sound signal) from the antenna terminal. 2. Connect between pin【4】of【MPX】connector and GND (Pin【3】of【MPX】connector) through 1MΩ Resistor. 3. Select the “No.8 5FH MON.” of the SOUND MODE, and reset the setting value from 0 to 1. 4. Connect the Frequency Counter to R OUT RCA pin of the AUDIO OUT. 5. Select the “No.9 SAP VCO”. 6. Set the initial setting value of “No.9 SAP VCO” with the LEFT/RIGHT key of the menu. 7. Adjust the “No.9 SAP VCO” so that the Frequency Counter will display 78.67kHz±0.5kHz. 8. Select the “No.8 5FH MON.” of the SOUND MODE, and reset the setting value from 1 to 0.

Item	Measuring instrument	Test point	Adjustment part	Description
MTS FILTER check			**No.5 FILTER**	1. Select the “No.5 FILTER” of the SOUND MODE. 2. Verify that the “No.5 FILTER” is set at its initial setting value.
MTS SEPARATION adjustment	**TV audio multiplex signal generator** **Oscilloscope**	**L OUT** **R OUT** **[AUDIO OUT]**	**No.6 LOW SEP.** **No.7 HI SEP.**	1. Input a stereo L signal (300Hz) from the TV audio multiplex signal generator to the antenna terminal. 2. Connect an oscilloscope to L OUT RCA pin of the AUDIO OUT, and display one cycle portion of the 300Hz signal. 3. Change the connection of the oscilloscope to R OUT RCA pin of the AUDIO OUT, and enlarge the voltage axis. 4. Select the “No.6 LOW SEP.” of the SOUND MODE. 5. Set the initial setting value of the “No.6 LOW SEP.” with the LEFT/RIGHT key of the menu. 6. Adjust the “No.6 LOW SEP.” so that the stroke element of the 300Hz signal will become minimum. 7. Change the signal to 3kHz, and similarly adjust the “No.7 HI SEP.”.



HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

1. HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing the high voltage hold down circuit shown in Fig. 1.
This circuit shall be checked to operate correctly.

2. CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT

(1) Turn the power switch to on.

(2) As shown in Fig. 1, set the resistor between [X] connector [1] and [3] .

(3) Make sure that the screen picture disappears.

(4) Temporarily unplug the power plug.

(5) Remove the resistor replaced [X] connector [1] and [3] .

(6) Again plug the power plug, make sure that the normal picture is displayed on the screen.

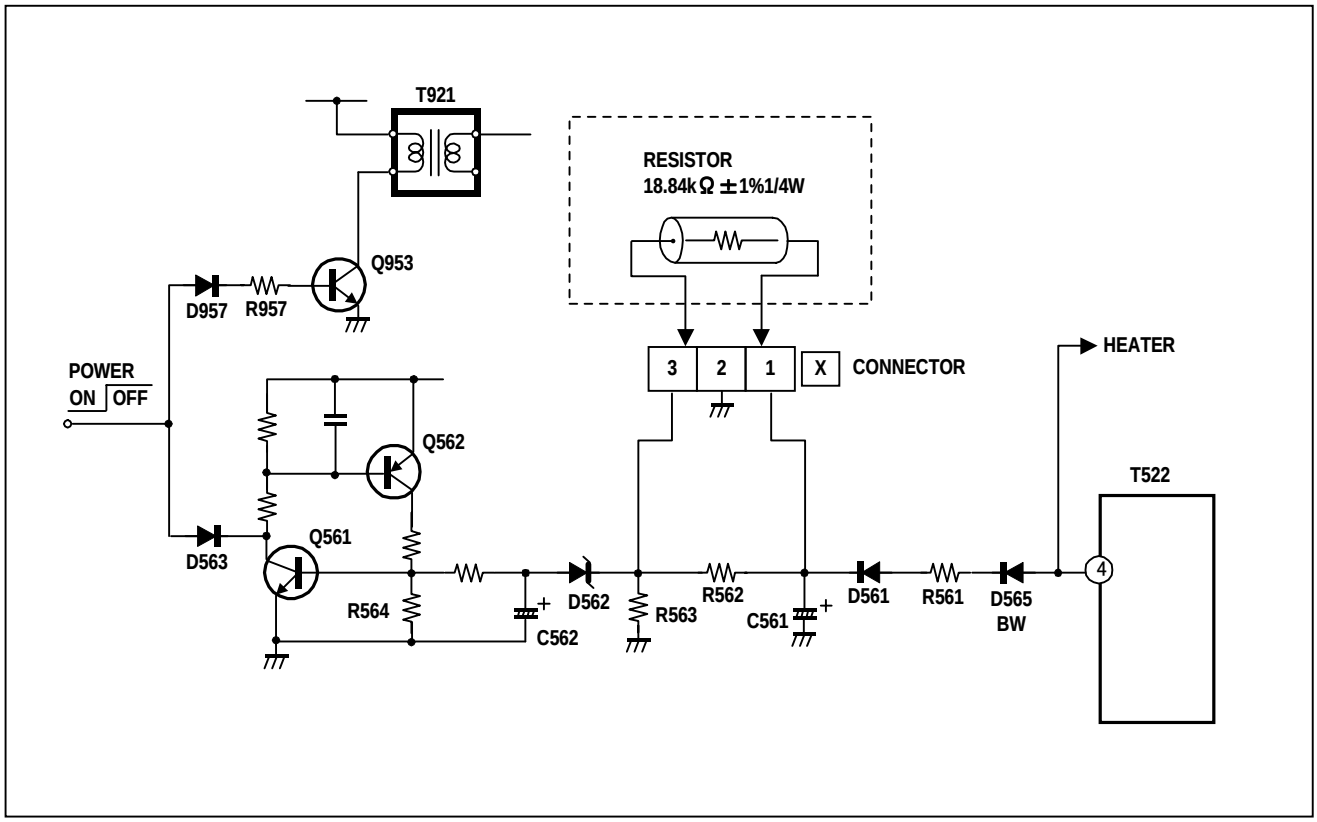


Fig. 1

SELF CHECK FUNCTIONS

1. Outline

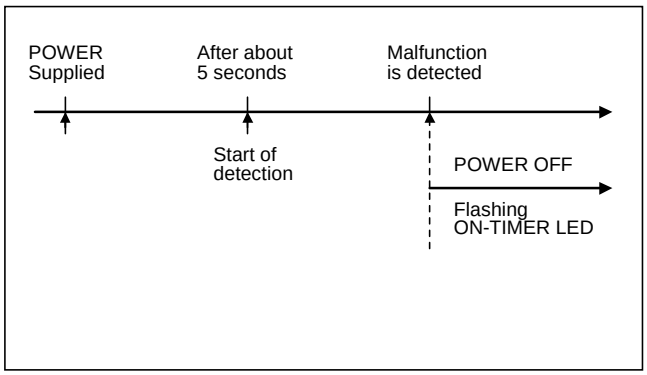
This model has self check functions given below. When a malfunction has been detected, the POWER is turned off and the LED flashes to inform of the failure . The malfunction is detected by the signal input state of the control line connected to the microcomputer.

2. Self check items

Check item	Details of detection	Method of detection	State of malfunction
CRT NECK protector Also detected if the power supply line output from the HVT (High voltage Transformer) has shorted with the ground.	When the vertical circuit S-correction capacitor C427 is shorted, detect the potential drop of the C427, and prevent the burn damage to the CRT NECK. (Grounding of shorting of the power supply output from the HVT to the vertical circuit, and the small signal power supply is also detected.)	The microcomputer detects at 1 second intervals. If NG is detected for more than 1 ms, a malfunction is interpreted.	When a malfunction has been detected, the POWER is turned off. While the POWER is being turned off , the power key of the remote controller is not operational until the power code is taken out and put in again.

3. Self check indicating function

The self-check function begins detection about 5 seconds after power is supplied.
In the event a malfunction is detected, the power is cut off immediately.
At this time, the ON-TIMER LED flashes to inform of the malfunction.



[ON-TIMER LED indication]

The ON-TIMER LED flashes at 0.5 seconds intervals.

REPLACEMENT OF CHIP COMPONENT

■ CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adequately.
4. Do not reuse a chip part after removing it.

■ SOLDERING IRON

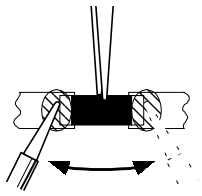
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

■ REPLACEMENT STEPS

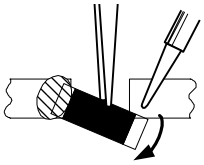
1. How to remove Chip parts

◆ **Resistors, capacitors, etc.**

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

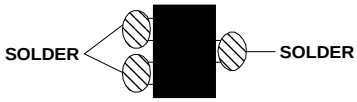


(2) Shift with tweezers and remove the chip part.

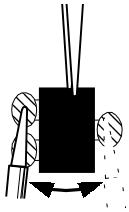


◆ **Transistors, diodes, variable resistors, etc.**

(1) Apply extra solder to each lead.



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

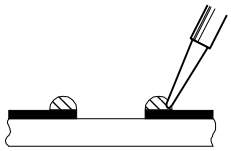


Note : After removing the part, remove remaining solder from the pattern.

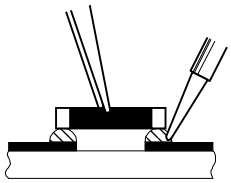
2. How to install Chip parts

◆ **Resistors, capacitors, etc.**

(1) Apply solder to the pattern as indicated in the figure.



(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

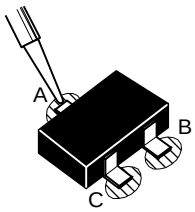


◆ **Transistors, diodes, variable resistors, etc.**

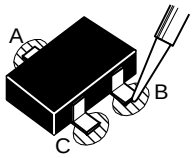
(1) Apply solder to the pattern as indicated in the figure.

(2) Grasp the chip part with tweezers and place it on the solder.

(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



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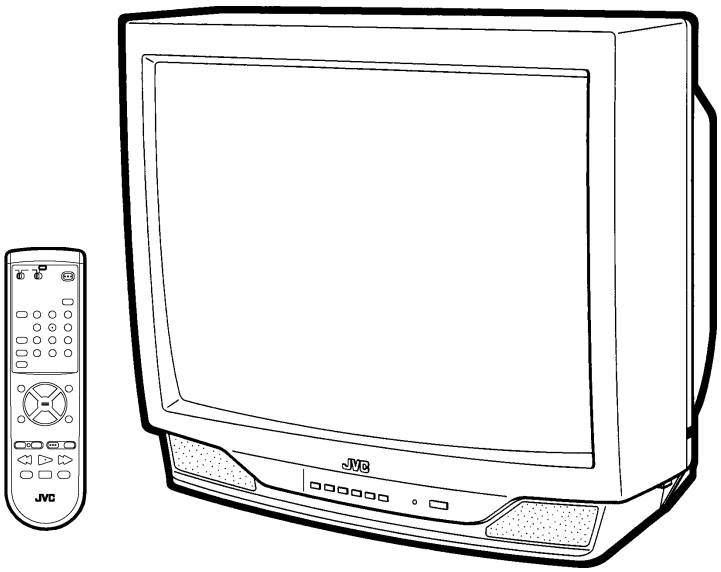

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No.51803
Apr. 2001

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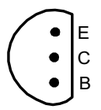
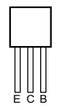
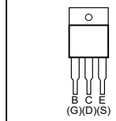
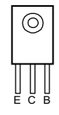
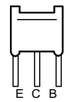
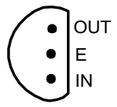
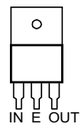
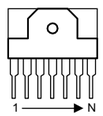
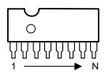
SEMICONDUCTOR SHAPES

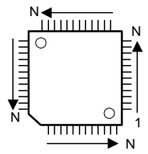
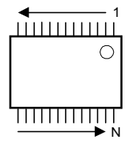
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR

IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

TOP VIEW		
		

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal : Color bar signal

(2)Setting positions of each knob/button and variable resistor :Original setting position when shipped

(3)Internal resistance of tester :DC 20kΩ/V

(4)Oscilloscope sweeping time :H ⇒ 20μS/div
:V ⇒ 5mS/div
:Others ⇒ Sweeping time is specified

(5)Voltage values :All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

●In the PW board :R1209→R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

●Resistance value

No unit	:[Ω]
K	:[KΩ]
M	:[MΩ]

●Rated allowable power

No indication	:1/16[W]
Others	:As specified

●Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflammable resistor
FR	:Fusible resistor

*Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

●Capacitance value

1 or higher	:[pF]
less than 1	:[μF]

●Withstand voltage

No indication	:DC50[V]
AC indicated	:AC withstand voltage [V]
Others	:DC withstand voltage [V]

*Electrolytic Capacitors

47/50[Example]:Capacitance value [μF]/withstand voltage[V]

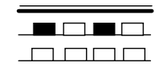
●Type

No indication	:Ceramic capacitor
MY	:Mylar capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capacitor

(3)Coils

No unit	:[μH]
Others	:As specified

(4)Power Supply



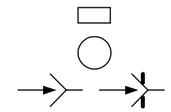
:B1
:9V
:5V

*Respective voltage values are indicated

(5)Test point

:Test point
:Only test point display

(6)Connecting method



:Connector
:Wrapping or soldering
:Receptacle

(7)Ground symbol

⊥ :LIVE side ground
⏚ :ISOLATED(NEUTRAL) side ground
⏚ :EARTH ground
▽ :DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

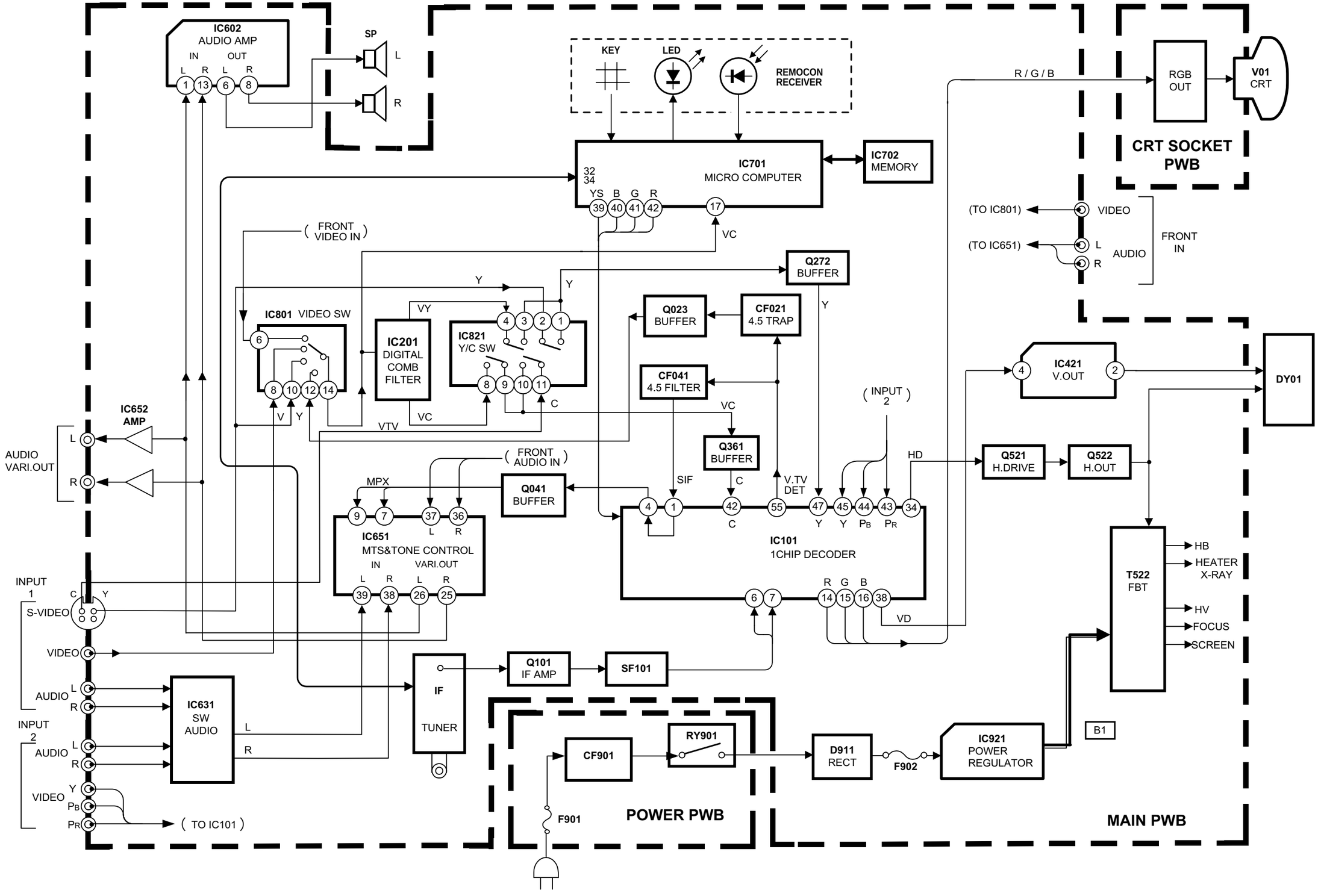
This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◇**Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

BLOCK DIAGRAM



CIRCUIT DIAGRAMS *MAIN PWB CIRCUIT DIAGRAM*

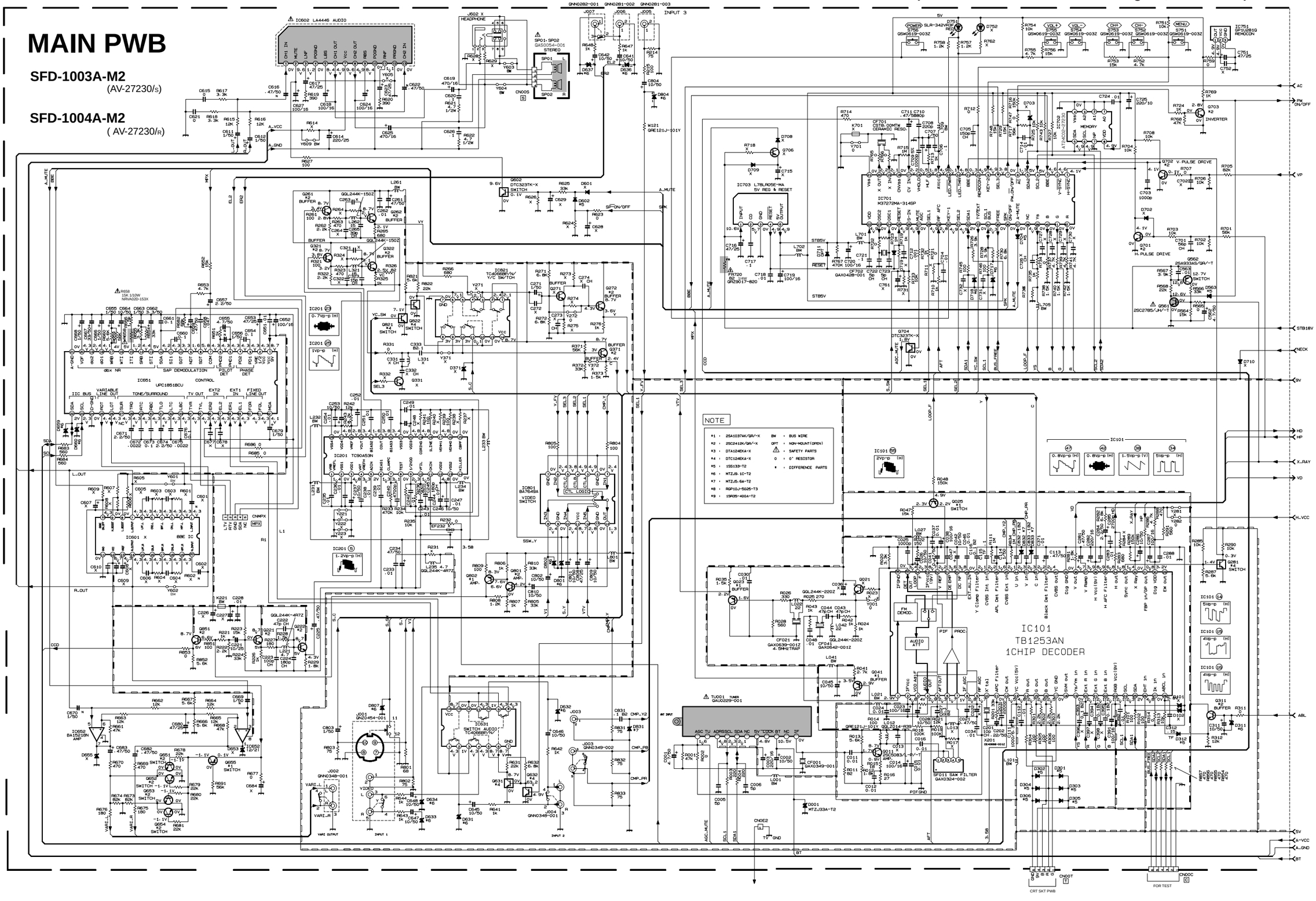
NOTE

●For the parts marked " ∗ " in the circuit diagram, refer to the parts list.

MAIN PWB

SFD-1003A-M2
(AV-27230/S)

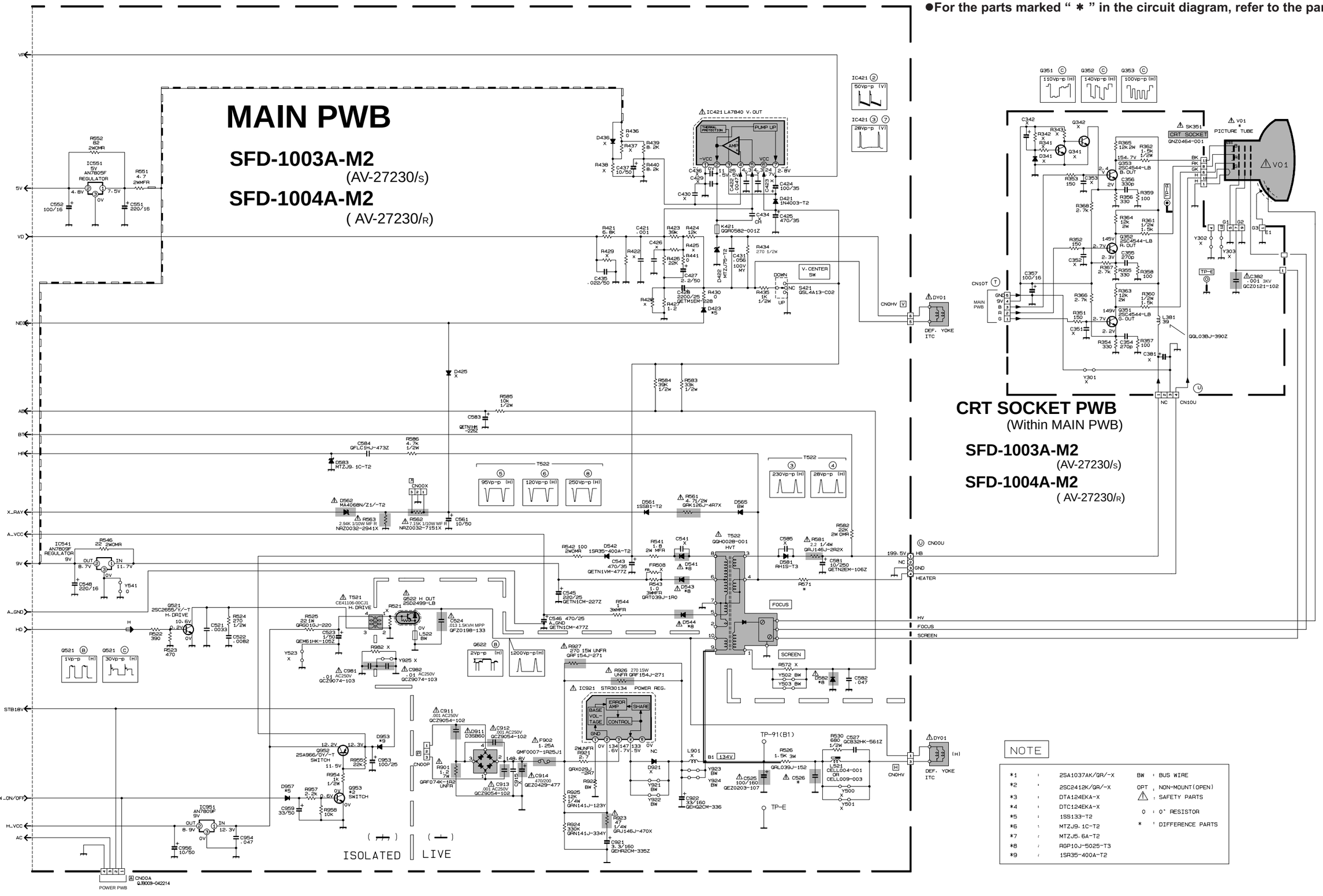
SFD-1004A-M2
(AV-27230/R)



MAIN PWB, CRT SOCKET PWB CIRCUIT DIAGRAM

NOTE

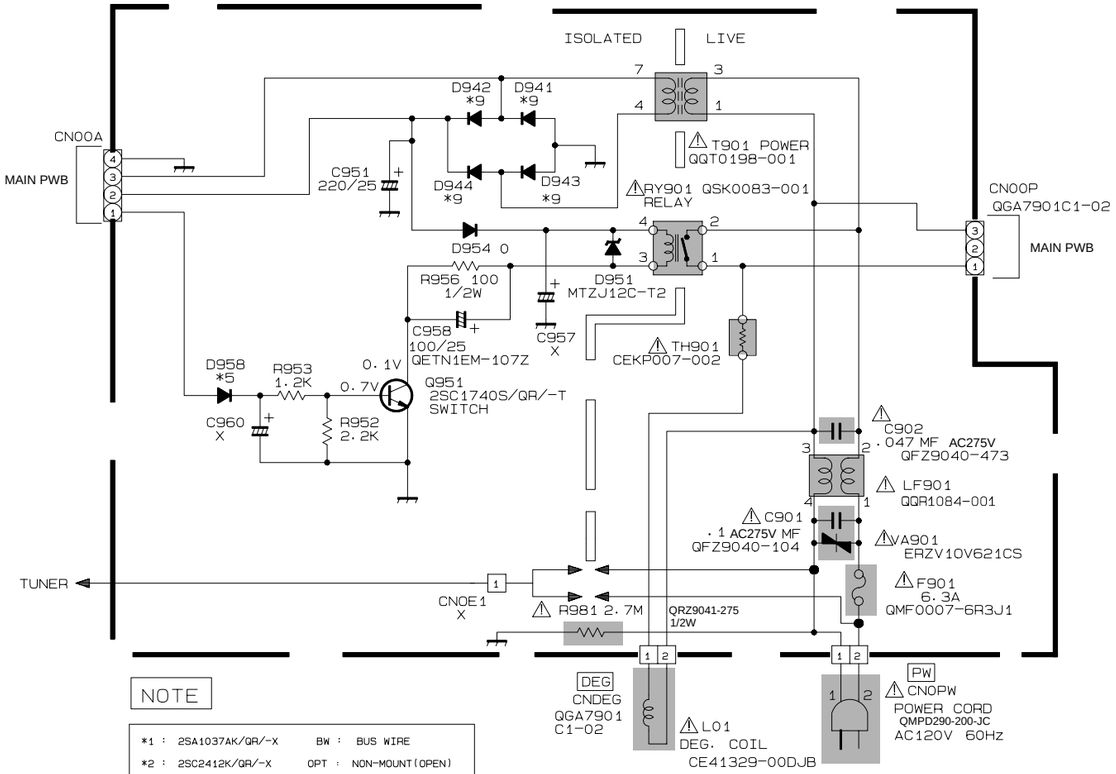
●For the parts marked " ∗ " in the circuit diagram, refer to the parts list.



POWER PWB CIRCUIT DIAGRAM

NOTE

●For the parts marked " ∗ " in the circuit diagram, refer to the parts list.



NOTE

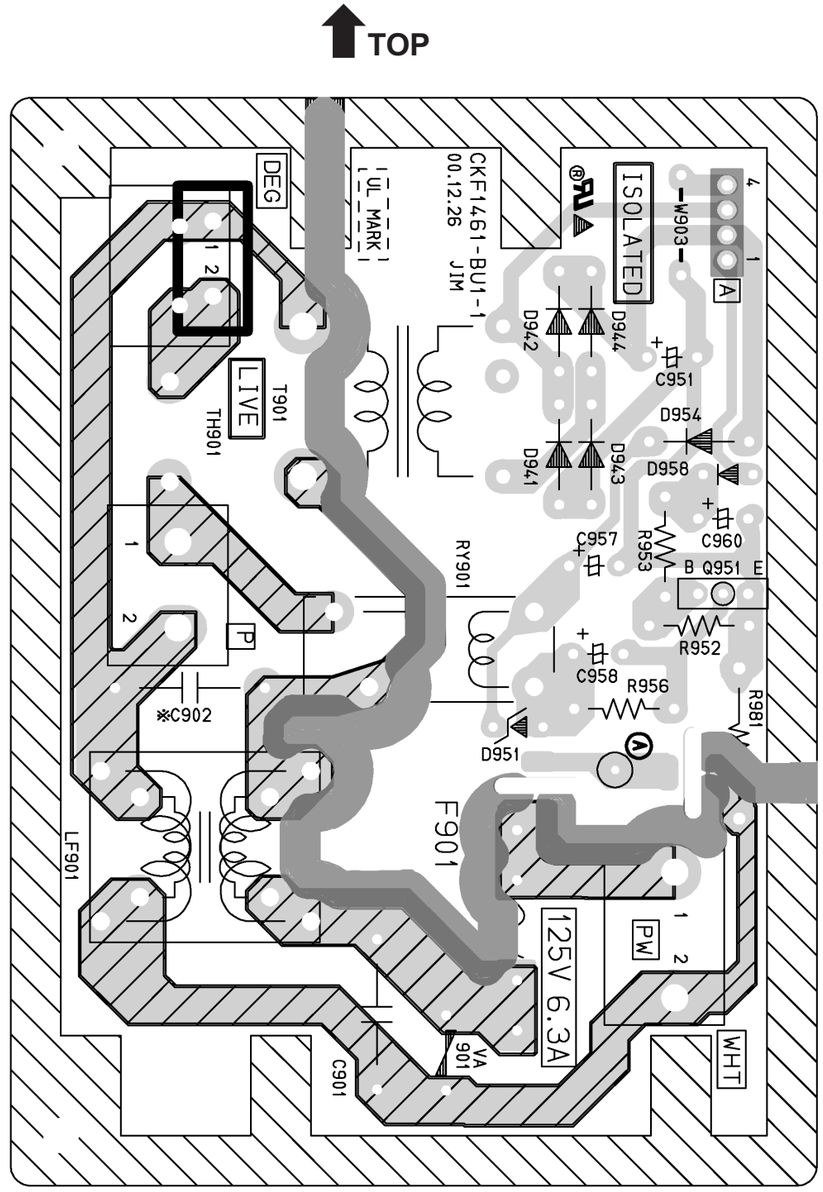
*1 :	2SA1037AK/QR/-X	BW :	BUS WIRE
*2 :	2SC2412K/QR/-X	OPT :	NON-MOUNT(OPEN)
*3 :	DTA124EKA-X	⚠ :	SAFETY PARTS
*4 :	DTC124EKA-X	0 :	0Ω RESISTOR
*5 :	1SS133-T2	* :	DIFFERENCE PARTS
*6 :	MTZJ9.1C-T2		
*7 :	MTZJ5.6A-T2		
*8 :	RGP10J-5025-T3		
*9 :	1SR35-400A-T2		

POWER PWB

SFD-9001A-M2

PATTERN DIAGRAMS

POWER PWB PATTERN



MAIN PWB, CRT SOCKET PWB PATTERN

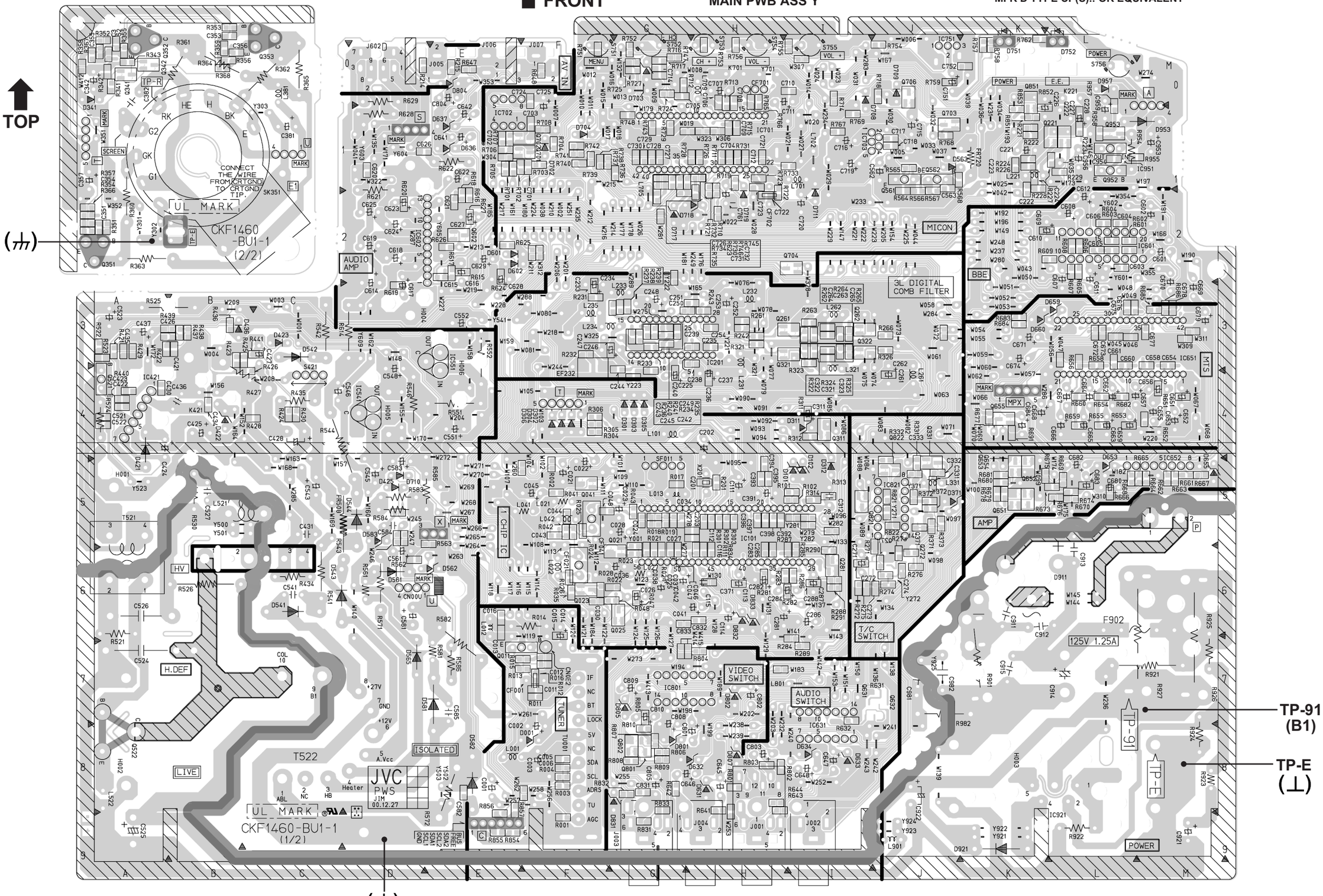
CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S) AND ROHM'S MFR'D TYPE CP(S).: OR EQUIVALENT

CRT SOCKET PWB ASS'Y

FRONT

MAIN PWB ASS'Y

TOP



■CHANNEL CHART (US)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02		Ⅰ
			03		
			04		
			05		
			06		
		VH	07		Ⅱ
			08		
			09		
			10		
			11		
			12		
			13		
×	○	MID	A	14	Ⅰ
			B	15	
			C	16	Ⅱ
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W+1	37	
			W+2	38	
			W+3	39	
			W+4	40	
			W+5	41	
			W+6	42	
			W+7	43	
			W+8	44	
			W+9	45	
			W+10	46	
			W+11	47	
			W+12	48	Ⅳ
			W+13	49	
			W+14	50	
			W+15	51	
			W+16	52	
			W+17	53	
			W+18	54	
			W+19	55	
			W+20	56	
			W+21	57	
			W+22	58	
			W+23	59	
			W+24	60	
			W+25	61	
			W+26	62	
			W+27	63	
			W+28	64	
		ULTRA	W+29	65	
			W+30	66	
			W+31	67	
			W+32	68	
			W+33	69	
			W+34	70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35	71	Ⅳ
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
			W+67	108	
			W+68	109	
			W+69	110	
			W+70	111	
			W+71	112	
			W+72	113	
			W+73	114	
			W+74	115	
			W+75	116	
			W+76	117	
			W+77	118	
			W+78	119	
			W+79	120	
			W+80	121	
			W+81	122	
			W+82	123	
			W+83	124	
			W+84	125	
		SUB MID	A-8	01	Ⅰ
			A-4	96	
			A-3	97	Ⅱ
			A-2	98	
			A-1	99	
○	×	UHF	14 ∫ 69		Ⅳ

TOTAL 180CH
{ VHF 124CH
{ UHF 56CH

NOTE:
TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES.
SPECIAL ADAPTERS MAY BE REQUIRED.

■CHANNEL CHART (CA)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02		Ⅰ
			03		
			04		
			05		
			06		
		VH	07		Ⅱ
			08		
			09		
			10		
			11		
			12		
			13		
×	○	MID	A	14	Ⅱ
			B	15	
			C	16	
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	Ⅲ
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W+1	37	
			W+2	38	
			W+3	39	
			W+4	40	
			W+5	41	
			W+6	42	
			W+7	43	
			W+8	44	
			W+9	45	
			W+10	46	
			W+11	47	
			W+12	48	
			W+13	49	
			W+14	50	
			W+15	51	
			W+16	52	
			W+17	53	
			W+18	54	
			W+19	55	
			W+20	56	
			W+21	57	
			W+22	58	
			W+23	59	
			W+24	60	
			W+25	61	
			W+26	62	
			W+27	63	
			W+28	64	
			W+29	65	
		ULTRA	W+30	66	Ⅳ
			W+31	67	
			W+32	68	
			W+33	69	
			W+34	70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35	71	Ⅳ
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
			W+67	108	
			W+68	109	
			W+69	110	
			W+70	111	
			W+71	112	
			W+72	113	
			W+73	114	
			W+74	115	
			W+75	116	
			W+76	117	
			W+77	118	
			W+78	119	
			W+79	120	
			W+80	121	
			W+81	122	
			W+82	123	
			W+83	124	
			W+84	125	
		SUB MID	A-8	01	Ⅰ
			A-4	96	
			A-3	97	Ⅱ
			A-2	98	
			A-1	99	
○	×	UHF	14 ∫ 69		Ⅳ

TOTAL 180CH
{ VHF 124CH
{ UHF 56CH

NOTE:
TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES.
SPECIAL ADAPTERS MAY BE REQUIRED.

VP0104
DP6051

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JVC®

AV27230S-UCM #4
AV27230R-UCM #4

Printed in Japan
VP 0104
DP6051

PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines —— in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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■ PACKING PARTS LIST ····· 44

USING P.W. BOARD & REMOTE CONTROL UNIT

Model / P.W.B ASS'Y	**AV-27230/S**	**AV-27230/R**
MAIN P.W.B	SFD-1003A-M2	SFD-1004A-M2
POWER P.W.B	SFD-9001A-M2	←
REMOTE CONTROL UNIT	RM-C306-1A	←

EXPLODED VIEW PARTS LIST (1)

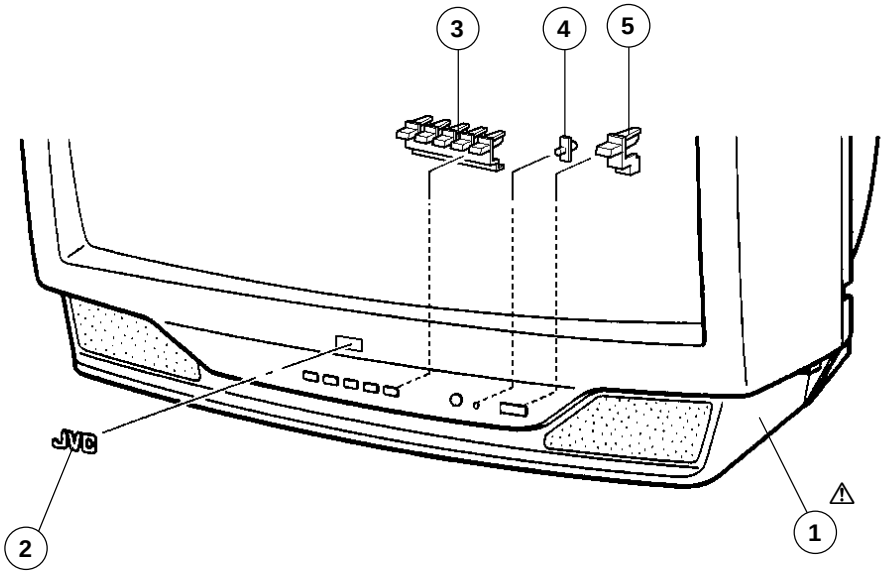
AV-27230/S

⚠	Ref.No.	Part No.	Part Name	Description
⚠	1	LC10081-004A-A	FRONT CABINET	
	2	CM48006-006-C	JVC MARK	
	3	LC30271-001A-A	PUSH KNOB	
	4	LC30191-001C-A	LENS	
	5	LC30376-001A-A	POWER KNOB	

AV-27230/R

⚠	Ref.No.	Part No.	Part Name	Description
⚠	1	LC10081-004A-A	FRONT CABINET	
	2	CM48006-006-C	JVC MARK	
	3	LC30271-001A-A	PUSH KNOB	
	4	LC30191-001C-A	LENS	
	5	LC30376-001A-A	POWER KNOB	

EXPLODED VIEW (1)



EXPLODED VIEW PARTS LIST (2)

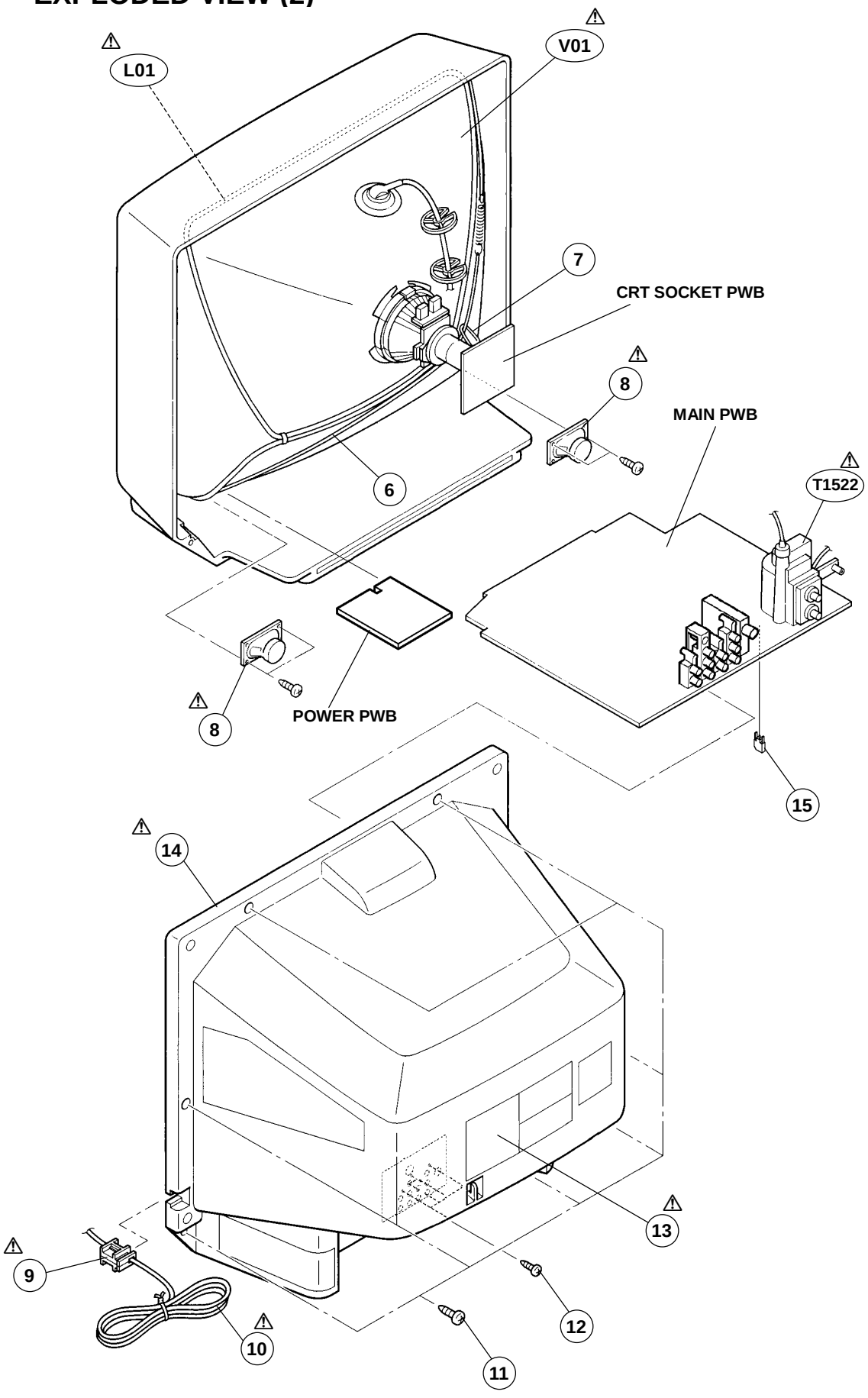
AV-27230/S

⚠	Ref.No.	Part No.	Part Name	Description
⚠	V01	A68QDN891X001	ITC TUBE(C)	
⚠	L01	CE41329-00DJB	DEG.COIL	
⚠	T1522	QQH0028-001	H.V.TRANSF.	
	6	CHGB0015-0B	BRAIDED WIRE	
	7	CHGB0016-0C	BRAIDED WIRE SUB	
⚠	8	QAS0054-001	SPEAKER	(×2)SP01,02
⚠	9	LC20106-001D-A	CORD CLAMP	
⚠	10	QMPD290-200-JC	POWER CORD	
	11	QYSBSFG4016Z	TAPPING SCREW	(×7)
	12	QYSBSB3010Z	TAPPING SCREW	(×4)
⚠	13	LC31139-001A-A	RATING LABEL	
⚠	14	LC10082-003A-A	REAR COVER	
	15	CM48144-001-A	P.W.B.STOPPER	

AV-27230/R

⚠	Ref.No.	Part No.	Part Name	Description
⚠	V01	A68ADT25X01	ITC TUBE(C)	
⚠	L01	CE41329-00DJB	DEG.COIL	
⚠	T1522	QQH0028-001	H.V.TRANSF.	
	6	CHGB0015-0B	BRAIDED WIRE	
	7	CHGB0016-0C	BRAIDED WIRE SUB	
⚠	8	CEBSS09D-03KJ2	SPEAKER	(×2)SP01,02
⚠	9	LC20106-001D-A	CORD CLAMP	
⚠	10	QMPD290-200-JC	POWER CORD	
	11	QYSBSFG4016Z	TAPPING SCREW	(×7)
	12	QYSBSB3010Z	TAPPING SCREW	(×4)
⚠	13	LC31139-001A-A	RATING LABEL	
⚠	14	LC10082-003A-A	REAR COVER	
	15	CM48144-001-A	PWB STOPPER	

EXPLODED VIEW (2)



AV-27230/S

PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y (SFD-1003A-M2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R1001	NRSA63J-473X	MG R	47kΩ 1/16W J
	R1002	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1003-04	NRSA63J-221X	MG R	220Ω 1/16W J
	R1011	NRSA63J-820X	MG R	82Ω 1/16W J
	R1012	NRSA63J-182X	MG R	1.8kΩ 1/16W J
	R1013	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	R1014	QRE121J-101Y	C R	100Ω 1/2W J
	R1015	NRSA63J-180X	MG R	18Ω 1/16W J
	R1016	NRSA63J-270X	MG R	27Ω 1/16W J
	R1018-19	NRSA63J-104X	MG R	100kΩ 1/16W J
	R1020	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R1021	NRSA63J-123X	MG R	12kΩ 1/16W J
	R1022	NRSA63J-151X	MG R	150Ω 1/16W J
	R1024	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1025	NRSA63J-271X	MG R	270Ω 1/16W J
	R1026	NRSA63J-331X	MG R	330Ω 1/16W J
	R1028	NRSA63J-561X	MG R	560Ω 1/16W J
	R1035	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R1041	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R1042-43	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1047	NRSA63J-153X	MG R	15kΩ 1/16W J
	R1048	NRSA63J-154X	MG R	150kΩ 1/16W J
	R1101-02	NRSA63J-101X	MG R	100Ω 1/16W J
	R1111	NRSA63J-105X	MG R	1MΩ 1/16W J
	R1201	NRSA63J-333X	MG R	33kΩ 1/16W J
	R1214	NRSA63J-750X	MG R	75Ω 1/16W J
	R1215	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1221	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1222	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R1223	NRSA63J-153X	MG R	15kΩ 1/16W J
	R1224	NRSA63J-333X	MG R	33kΩ 1/16W J
	R1226	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1227	NRSA63J-181X	MG R	180Ω 1/16W J
	R1228	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R1229	NRSA63J-182X	MG R	1.8kΩ 1/16W J
	R1232	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1233	NRSA63J-474X	MG R	470kΩ 1/16W J
	R1234-35	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1236	NRSA63J-821X	MG R	820Ω 1/16W J
	R1239	NRSA63J-101X	MG R	100Ω 1/16W J
	R1241	NRSA63J-101X	MG R	100Ω 1/16W J
	R1242	NRSA63J-123X	MG R	12kΩ 1/16W J
	R1243	NRSA63J-822X	MG R	8.2kΩ 1/16W J
	R1261	NRSA63J-101X	MG R	100Ω 1/16W J
	R1262	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R1263	NRSA63J-471X	MG R	470Ω 1/16W J
	R1265-66	NRSA63J-681X	MG R	680Ω 1/16W J
	R1271-72	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R1276	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1281	NRSA63J-182X	MG R	1.8kΩ 1/16W J
	R1282	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R1283	NRSA63J-681X	MG R	680Ω 1/16W J
	R1285	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1286	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R1287	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	R1288	NRSA63J-471X	MG R	470Ω 1/16W J
	R1289	NRSA63J-154X	MG R	150kΩ 1/16W J
	R1290	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1291	NRSA63J-561X	MG R	560Ω 1/16W J
	R1301-03	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R1304-06	NRSA63J-101X	MG R	100Ω 1/16W J
	R1311	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1312	NRSA63J-123X	MG R	12kΩ 1/16W J
	R1313	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1314	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1321	NRSA63J-101X	MG R	100Ω 1/16W J

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R1322	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R1323	NRSA63J-471X	MG R	470Ω 1/16W J
	R1325	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1326	NRSA63J-820X	MG R	82Ω 1/16W J
	R1331	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1351-53	NRSA63J-151X	MG R	150Ω 1/16W J
	R1354-56	NRSA63J-331X	MG R	330Ω 1/16W J
	R1357-59	NRSA63J-101X	MG R	100Ω 1/16W J
	R1360-62	QRZ0111-152	C R	1.5kΩ 1/2W K
	R1363-65	QRL029J-123	OM R	12kΩ 2W J
	R1366-68	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R1371	NRSA63J-563X	MG R	56kΩ 1/16W J
	R1372	NRSA63J-333X	MG R	33kΩ 1/16W J
	R1373	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R1421	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R1423	NRSA63J-393X	MG R	39kΩ 1/16W J
	R1424	NRSA63J-123X	MG R	12kΩ 1/16W J
	R1426	NRSA63J-223X	MG R	22kΩ 1/16W J
	R1427	QRT029J-1R2	MF R	1.2Ω 2W J
	R1430	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1434	QRE121J-271Y	C R	270Ω 1/2W J
	R1435	QRE121J-102Y	C R	1kΩ 1/2W J
	R1436	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1439-40	NRSA63J-822X	MG R	8.2kΩ 1/16W J
	R1441	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1522	NRSA63J-391X	MG R	390Ω 1/16W J
	R1523	NRSA63J-471X	MG R	470Ω 1/16W J
	R1524	QRE121J-271Y	C R	270Ω 1/2W J
	R1525	QRG01GJ-220	OM R	22Ω 1W J
	R1526	QRL039J-152	OM R	1.5kΩ 3W J
	R1530	QRE121J-681Y	C R	680Ω 1/2W J
	R1541	QRT029J-1R8	MF R	1.8Ω 2W J
	R1542	QRL029J-101	OM R	100Ω 2W J
	R1543-44	QRT039J-1R0	MF R	1.0Ω 3W J
	R1546	QRL029J-220	OM R	22Ω 2W J
	R1551	QRT029J-4R7	MF R	4.7Ω 2W J
	R1552	QRL029J-820	OM R	82Ω 2W J
⚠	R1561	QRK126J-4R7X	C R	4.7Ω 1/2W J
⚠	R1562	NRZ0032-7151X	MF R	7.15kΩ 1/10W±0.5%
⚠	R1563	NRZ0032-2941X	MF R	2.94kΩ 1/10W±0.5%
	R1564	NRSA63J-153X	MG R	15kΩ 1/16W J
	R1565	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1566	NRSA63J-333X	MG R	33kΩ 1/16W J
	R1567	NRSA63J-392X	MG R	3.9kΩ 1/16W J
	R1568	NRSA63J-223X	MG R	22kΩ 1/16W J
	R1571	QRX01GJ-3R3	MF R	3.3Ω 1W J
⚠	R1581	QRJ146J-2R2X	C R	2.2Ω 1/4W J
	R1582	QRL029J-223	OM R	22kΩ 2W J
	R1583	QRE121J-333Y	C R	33kΩ 1/2W J
	R1584	QRE121J-393Y	C R	39kΩ 1/2W J
	R1585	QRE121J-103Y	C R	10kΩ 1/2W J
	R1586	QRE121J-472Y	C R	4.7kΩ 1/2W J
	R1615-16	NRSA63J-123X	MG R	12kΩ 1/16W J
	R1617-18	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R1619-20	NRSA63J-391X	MG R	390Ω 1/16W J
	R1621-22	QRE121J-4R7Y	C R	4.7Ω 1/2W J
	R1623	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1625	NRSA63J-333X	MG R	33kΩ 1/16W J
	R1627	NRSA63J-101X	MG R	100Ω 1/16W J
	R1631	NRSA63J-223X	MG R	22kΩ 1/16W J
	R1632	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R1641-44	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1647-48	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1651	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1652	NRSA63J-153X	MG R	15kΩ 1/16W J
	R1653	NRSA63J-472X	MG R	4.7kΩ 1/16W J

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⚠	Symbol No.	Part No.	Part Name	Description	
	RESISTOR				
	R1654	NRSA63J-333X	MG R	33kΩ 1/16W	J
	R1655	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R1656	NRVA02D-152X	MF R	1.5kΩ 1/10W	D
⚠	R1658	NRVA02D-153X	MF R	15kΩ 1/10W	D
	R1659	NRSA63J-563X	MG R	56kΩ 1/16W	J
	R1660	NRSA63J-562X	MG R	5.6kΩ 1/16W	J
	R1661	NRSA63J-473X	MG R	47kΩ 1/16W	J
	R1662-65	NRSA63J-123X	MG R	12kΩ 1/16W	J
	R1666-67	NRSA63J-562X	MG R	5.6kΩ 1/16W	J
	R1668	NRSA63J-473X	MG R	47kΩ 1/16W	J
	R1669-70	NRSA63J-471X	MG R	470Ω 1/16W	J
	R1673-74	NRSA63J-823X	MG R	82kΩ 1/16W	J
	R1675-76	NRSA63J-181X	MG R	180Ω 1/16W	J
	R1677	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1678-81	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R1682	NRSA63J-683X	MG R	68kΩ 1/16W	J
	R1683-84	NRSA63J-561X	MG R	560Ω 1/16W	J
	R1685-86	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1691	NRSA63J-563X	MG R	56kΩ 1/16W	J
	R1701	NRSA63J-563X	MG R	56kΩ 1/16W	J
	R1702-04	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1705	NRSA63J-823X	MG R	82kΩ 1/16W	J
	R1706	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1707	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1708	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1710	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1712	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1713	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1714	NRSA63J-471X	MG R	470Ω 1/16W	J
	R1715	NRSA63J-105X	MG R	1MΩ 1/16W	J
	R1716	NRSA63J-154X	MG R	150kΩ 1/16W	J
	R1717	NRSA63J-563X	MG R	56kΩ 1/16W	J
	R1719	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1721-22	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1723	NRSA63J-105X	MG R	1MΩ 1/16W	J
	R1724	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1725	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1726	NRSA63J-392X	MG R	3.9kΩ 1/16W	J
	R1727	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1728	NRSA63J-392X	MG R	3.9kΩ 1/16W	J
	R1729	NRSA63J-153X	MG R	15kΩ 1/16W	J
	R1730	NRSA63J-682X	MG R	6.8kΩ 1/16W	J
	R1732	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1733	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1734	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1735	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1737	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1738	NRSA63J-152X	MG R	1.5kΩ 1/16W	J
	R1739	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1740	NRSA63J-152X	MG R	1.5kΩ 1/16W	J
	R1741	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1742	NRSA63J-152X	MG R	1.5kΩ 1/16W	J
	R1743	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1745-46	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1747	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1748	NRSA63J-153X	MG R	15kΩ 1/16W	J
	R1751	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1752	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1753	NRSA63J-153X	MG R	15kΩ 1/16W	J
	R1754	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1755	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1756	NRSA63J-153X	MG R	15kΩ 1/16W	J
	R1757-58	NRSA63J-122X	MG R	1.2kΩ 1/16W	J
	R1759	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1765-66	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1767	NRSA63J-474X	MG R	470kΩ 1/16W	J
	R1768	NRSA63J-473X	MG R	47kΩ 1/16W	J
	R1769	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1801	NRSA63J-680X	MG R	68Ω 1/16W	J
	R1802-03	NRSA63J-750X	MG R	75Ω 1/16W	J
	R1804	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1805	NRSA63J-333X	MG R	33kΩ 1/16W	J

⚠	Symbol No.	Part No.	Part Name	Description	
	RESISTOR				
	R1806-07	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1808	NRSA63J-122X	MG R	1.2kΩ 1/16W	J
	R1809	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1810	NRSA63J-333X	MG R	33kΩ 1/16W	J
	R1821	NRSA63J-562X	MG R	5.6kΩ 1/16W	J
	R1822	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R1831-33	NRSA63J-750X	MG R	75Ω 1/16W	J
	R1851	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1852	NRSA63J-562X	MG R	5.6kΩ 1/16W	J
	R1853	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1854-57	NRSA63J-471X	MG R	470Ω 1/16W	J
⚠	R1901	QRF074K-1R2	UNF R	1.2Ω 7W	K
	R1921	QRX029J-2R7	MF R	2.7Ω 2W	J
⚠	R1923	QRJ146J-470X	UNF C R	47Ω 1/4W	J
	R1924	QRN141J-334Y	C R	330kΩ 1/4W	J
	R1925	QRN141J-123Y	C R	12kΩ 1/4W	J
⚠	R1926	QRF154J-271	UNF R	270 Ω 15W	J
⚠	R1927	QRF154J-271	UNF R	270 Ω 15W	J
	R1954	QRE121J-102Y	C R	1kΩ 1/2W	J
	R1955	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R1957	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1958	NRSA63J-103X	MG R	10kΩ 1/16W	J
	CAPACITOR				
	C1001	QETN1HM-475Z	E CAP.	4.7µF 50V	M
	C1002	QETN1HM-106Z	E CAP.	10µF 50V	M
	C1003	QETN1CM-227Z	E CAP.	220µF 16V	M
	C1005-06	NDC31HJ-5R0X	C CAP.	5.0pF 50V	J
	C1011-12	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C1014	QETN1CM-107Z	E CAP.	100µF 16V	M
	C1015-16	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C1021	QETN1HM-474Z	E CAP.	0.47µF 50V	M
	C1023	QETN1CM-107Z	E CAP.	100µF 16V	M
	C1024	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C1025	NCB31HK-102X	C CAP.	1000pF 50V	K
	C1026	QETN1HM-474Z	E CAP.	0.47µF 50V	M
	C1027	NCB31HK-104X	CHIP CAP.	0.1µF 50V	K
	C1028	QETN1HM-106Z	E CAP.	10µF 50V	M
	C1030	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C1034	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C1037	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C1038	QETN1CM-107Z	E CAP.	100µF 16V	M
	C1041-42	QETN1HM-106Z	E CAP.	10µF 50V	M
	C1043-44	NDC31HJ-470X	C CAP.	47pF 50V	J
	C1045	QETN1HM-106Z	E CAP.	10µF 50V	M
	C1046	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C1047	NDC31HJ-330X	C CAP.	33pF 50V	J
	C1048	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C1111	QETN0JM-108Z	E CAP.	1000µF 6.3V	M
	C1112	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C1113	QETN1HM-474Z	E CAP.	0.47µF 50V	M
	C1114	QETN1HM-105Z	E CAP.	1µF 50V	M
	C1115	QFV71HJ-104Z	MF CAP.	0.1µF 50V	J
	C1116	NCB31HK-104X	CHIP CAP.	0.1µF 50V	K
	C1201	NDC31HJ-100X	C CAP.	10pF 50V	J
	C1202	QETN1HM-224Z	E CAP.	0.22µF 50V	M
	C1203	NCB31HK-222X	CHIP CAP.	2200pF 50V	K
	C1221	QENC1EM-106Z	BP E CAP.	10µF 25V	M
	C1222	NDC31HJ-470X	C CAP.	47pF 50V	J
	C1223	NDC31HJ-101X	C CAP.	100pF 50V	J
	C1224	NDC31HJ-181X	C CAP.	180pF 50V	J
	C1225	QETN1HM-474Z	E CAP.	0.47µF 50V	M
	C1228	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C1233	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C1234	QETN1HM-476Z	E CAP.	47µF 50V	M
	C1235-36	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C1237	QETN1HM-106Z	E CAP.	10µF 50V	M
	C1238-39	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C1240	NCB31HK-472X	C CAP.	4700pF 50V	K
	C1242-44	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C1245	NDC31HJ-181X	C CAP.	180pF 50V	J

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⚠	Symbol No.	Part No.	Part Name	Description
	CAPACITOR			
	C1246	QETN1HM-106Z	E CAP.	10μF 50V M
	C1247	NCB31HK-103X	C CAP.	0.01μF 50V K
	C1249-52	NCB31HK-103X	C CAP.	0.01μF 50V K
	C1253	QETN1HM-106Z	E CAP.	10μF 50V M
	C1254	NCB31HK-103X	C CAP.	0.01μF 50V K
	C1261	QETN1HM-476Z	E CAP.	47μF 50V M
	C1262	NCB31HK-103X	C CAP.	0.01μF 50V K
	C1265	NDC31HJ-390X	C CAP.	39pF 50V J
	C1271	QETN1HM-106Z	E CAP.	10μF 50V M
	C1281	QETN1HM-474Z	E CAP.	0.47μF 50V M
	C1282	QETN1CM-227Z	E CAP.	220μF 16V M
	C1283	NCB31HK-103X	C CAP.	0.01μF 50V K
	C1284	QETN1HM-225Z	E CAP.	2.2μF 50V M
	C1285	NCB31HK-272X	CHIP CAP.	2700pF 50V K
	C1286	QETN1HM-106Z	E CAP.	10μF 50V M
	C1287	QETN1CM-107Z	E CAP.	100μF 16V M
	C1288	NCB31HK-103X	C CAP.	0.01μF 50V K
	C1311	QETN1HM-106Z	E CAP.	10μF 50V M
	C1312	QFV71HJ-154Z	MF CAP.	0.15μF 50V J
	C1323	NDC31HJ-150X	C CAP.	15pF 50V J
	C1333	NCB31HK-104X	CHIP CAP.	0.1μF 50V K
	C1354-55	NDC31HJ-271X	CER.CAP.	270pF 50V J
	C1356	NDC31HJ-331X	C CAP.	330pF 50V J
	C1357	QETN1CM-107Z	E CAP.	100μF 16V M
	C1371	NCB31HK-103X	C CAP.	0.01μF 50V K
⚠	C1382	QCZ0121-102	C CAP.	1000pF 3kV Z
	C1391	QETN1CM-107Z	E CAP.	100μF 16V M
	C1392	NCB31HK-103X	C CAP.	0.01μF 50V K
	C1393-95	NCB31HK-104X	CHIP CAP.	0.1μF 50V K
	C1421	NCB31HK-102X	C CAP.	1000pF 50V K
	C1422	NCB31HK-472X	C CAP.	4700pF 50V K
	C1424	QETN1VM-107Z	E CAP.	100μF 35V M
	C1425	QETN1VM-477Z	E CAP.	470μF 35V M
	C1427	QETN1HM-225Z	E CAP.	2.2μF 50V M
	C1428	QETM1EM-228	E CAP.	2200μF 25V M
	C1431	QFLC1HJ-563Z	M CAP.	0.056μF 50V J
	C1435	NCB21HK-223X	C CAP.	0.022μF 50V K
	C1437	QETN1HM-106Z	E CAP.	10μF 50V M
	C1521	NCB31HK-332X	CHIP CAP.	3300pF 50V K
	C1522	NCB31HK-822X	CHIP CAP.	8200pF 50V K
	C1523	QEM61HK-105Z	E CAP.	1μF 50V K
⚠	C1524	QFZ0198-133	MPP CAP.	0.013μF1.5kVH±3%
⚠	C1525	QEZ0203-107	E CAP.	100μF 160V M
⚠	C1526	QFZ0119-434	MPP CAP.	0.43μF 200V ±3%
	C1527	QCB32HK-561Z	C CAP.	560pF 500V K
	C1543	QETN1VM-477Z	E CAP.	470μF 35V M
	C1545	QETN1CM-227Z	E CAP.	220μF 16V M
	C1546	QETN1CM-477Z	E CAP.	470μF 16V M
	C1548	QETN1CM-227Z	E CAP.	220μF 16V M
	C1551	QETN1CM-227Z	E CAP.	220μF 16V M
	C1552	QETN1CM-107Z	E CAP.	100μF 16V M
	C1561	QETN1HM-106Z	E CAP.	10μF 50V M
	C1562	QETN1HM-475Z	E CAP.	4.7μF 50V M
	C1563	NCB31HK-103X	C CAP.	0.01μF 50V K
	C1581	QETN2EM-106Z	E CAP.	10μF 250V M
	C1582	NCB31HK-473X	CHIP CAP.	0.047μF 50V K
	C1584	QFLC1HJ-473Z	M CAP.	0.047μF 50V J
	C1611-12	QETN1HM-105Z	E CAP.	1μF 50V M
	C1614	QETN1EM-227Z	E CAP.	220μF 25V M
	C1615	NRSA63J-0ROX	MG R	0.0Ω 1/16W J
	C1616	QENC1HM-474Z	BP E CAP.	0.47μF 50V M
	C1617	QETN1EM-476Z	E CAP.	47μF 25V M
	C1618	QETN1CM-107Z	E CAP.	100μF 16V M
	C1619	QETN1CM-477Z	E CAP.	470μF 16V M
	C1620	NCB31HK-104X	CHIP CAP.	0.1μF 50V K
	C1621	NRSA63J-0ROX	MG R	0.0Ω 1/16W J
	C1622	QENC1HM-474Z	BP E CAP.	0.47μF 50V M
	C1623	QETN1EM-476Z	E CAP.	47μF 25V M
	C1624	QETN1CM-107Z	E CAP.	100μF 16V M
	C1625	QETN1CM-477Z	E CAP.	470μF 16V M
	C1626	NCB31HK-104X	CHIP CAP.	0.1μF 50V K
	C1627	QETN1CM-107Z	E CAP.	100μF 16V M

⚠	Symbol No.	Part No.	Part Name	Description
	CAPACITOR			
	C1641-42	QETN1HM-106Z	E CAP.	10μF 50V M
	C1645-48	QETN1HM-106Z	E CAP.	10μF 50V M
	C1651	NCB31HK-103X	C CAP.	0.01μF 50V K
	C1652	QETN1CM-107Z	E CAP.	100μF 16V M
	C1653	QETN1EM-476Z	E CAP.	47μF 25V M
	C1654	NCB31HK-104X	CHIP CAP.	0.1μF 50V K
	C1655	QENC1HM-475Z	BP E CAP.	4.7μF 50V M
	C1656	QENC1HM-105Z	BP E CAP.	1μF 50V M
	C1657	QETN1HM-225Z	E CAP.	2.2μF 50V M
	C1658	NCB31HK-473X	CHIP CAP.	0.047μF 50V K
	C1659	QETN1HM-474Z	E CAP.	0.47μF 50V M
	C1660-61	NCB31HK-104X	CHIP CAP.	0.1μF 50V K
	C1662	QBTC1CK-335Z	TAN.CAP.	3.3μF 16V K
	C1663	QETN1HM-105Z	E CAP.	1μF 50V M
	C1664	QBTC1CK-106Z	TAN.CAP.	10μF 16V K
	C1665-66	QETN1HM-105Z	E CAP.	1μF 50V M
	C1667	QETN1HM-336Z	E CAP.	33μF 50V M
	C1668	QETN1HM-105Z	E CAP.	1μF 50V M
	C1669-70	QENC1HM-105Z	BP E CAP.	1μF 50V M
	C1671	QETN1HM-225Z	E CAP.	2.2μF 50V M
	C1672	NCB31HK-222X	CHIP CAP.	2200pF 50V K
	C1673	NCB31HK-104X	CHIP CAP.	0.1μF 50V K
	C1674	QETN1HM-225Z	E CAP.	2.2μF 50V M
	C1675	NCB31HK-222X	CHIP CAP.	2200pF 50V K
	C1676	NCB31HK-104X	CHIP CAP.	0.1μF 50V K
	C1679	QETN1HM-105Z	E CAP.	1μF 50V M
	C1680	QETN1EM-476Z	E CAP.	47μF 25V M
	C1682-83	QETN1HM-474Z	E CAP.	0.47μF 50V M
	C1701	NDC31HJ-560X	C CAP.	56pF 50V J
	C1703	NCB31HK-102X	C CAP.	1000pF 50V K
	C1704	NCB31HK-103X	C CAP.	0.01μF 50V K
	C1705	NDC31HJ-151X	C CAP.	150pF 50V J
	C1706	NCB31HK-104X	CHIP CAP.	0.1μF 50V K
	C1707	QETN1HM-105Z	E CAP.	1μF 50V M
	C1708	NCS21HJ-221X	C CAP.	220pF 50V J
	C1709	NCS21HJ-102X	C CAP.	1000pF 50V J
	C1710	NDC31HJ-681X	C CAP.	680pF 50V J
	C1711	QETN1HM-474Z	E CAP.	0.47μF 50V M
	C1712	NCB31HK-102X	C CAP.	1000pF 50V K
	C1714	NCB31HK-103X	C CAP.	0.01μF 50V K
	C1716	QETN1EM-476Z	E CAP.	47μF 25V M
	C1717	NCB31HK-104X	CHIP CAP.	0.1μF 50V K
	C1718	NCB31HK-103X	C CAP.	0.01μF 50V K
	C1719-20	QETN1CM-107Z	E CAP.	100μF 16V M
	C1721	NCB31HK-104X	CHIP CAP.	0.1μF 50V K
	C1722-23	NDC31HJ-5R0X	C CAP.	5.0pF 50V J
	C1724	NCB31HK-103X	C CAP.	0.01μF 50V K
	C1725	QETN1AM-227Z	E CAP.	220μF 10V M
	C1751	QETN1EM-476Z	E CAP.	47μF 25V M
	C1801-02	QETN1HM-106Z	E CAP.	10μF 50V M
	C1803	QETN1HM-105Z	E CAP.	1μF 50V M
	C1804-05	QETN1HM-106Z	E CAP.	10μF 50V M
	C1808	QETN1EM-476Z	E CAP.	47μF 25V M
	C1809-10	QETN1HM-106Z	E CAP.	10μF 50V M
	C1831-33	NCB31HK-104X	CHIP CAP.	0.1μF 50V K
⚠	C1911	QCZ9054-102	C CAP.	1000pFAC250V Z
⚠	C1912	QCZ9054-102	C CAP.	1000pFAC250V Z
⚠	C1913	QCZ9054-102	C CAP.	1000pFAC250V Z
⚠	C1914	QEZ0429-477	E CAP.	470μF 200V M
	C1921	QEHR2CM-335Z	E CAP.	3.3μF 160V M
	C1922	QEHQ2CM-336	E CAP.	33μF 160V M
	C1953	QETN1EM-107Z	E CAP.	100μF 25V M
	C1954	NCB31HK-473X	CHIP CAP.	0.047μF 50V K
	C1956	QETN1HM-106Z	E CAP.	10μF 50V M
	C1959	QETN1HM-336Z	E CAP.	33μF 50V M
⚠	C1981	QCZ9074-103	C CAP.	0.01μFAC250V M
⚠	C1982	QCZ9074-103	C CAP.	0.01μFAC250V M
	TRANSFORMER			
⚠	T1521	CE41106-00CJ1	DRIVE TRANSF.	
⚠	T1522	QQH0028-001	H.V.TRANSF.	

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COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L1012	QQLZ014-R39	PEAKING COIL	
	L1022	QQL244K-220Z	PEAKING COIL	
	L1042	QQL244K-220Z	PEAKING COIL	
	L1221	QQL244K-4R7Z	COIL	4.7µH K
	L1235	QQL244K-4R7Z	COIL	4.7µH K
	L1262	QQL244K-150Z	COIL	15µH K
	L1321	QQL244K-150Z	COIL	15µH K
	L1381	QQL03BJ-390Z	COIL	39µH J
	L1521	CELL004-001	LINEARITY COIL	

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D1001	MTZJ33A-T2	ZENER DIODE	
	D1021	MTZJ9.1C-T2	ZENER DIODE	
	D1301-06	1SS133-T2	SI.DIODE	
	D1311	MTZJ9.1C-T2	ZENER DIODE	
	D1312	1SS133-T2	SI.DIODE	
	D1421	1N4003-T2	SI.DIODE	
	D1422	MTZJ75-T2	ZENER DIODE	
	D1423	1SS133-T2	SI.DIODE	
⚠	D1541	RGP10J-5025-T3	SI.DIODE	
	D1542	1SR35-400A-T2	SI.DIODE	
⚠	D1543	RGP10J-5025-T3	SI.DIODE	
⚠	D1544	RGP10J-5025-T3	SI.DIODE	
	D1561	1SS81-T2	SI.DIODE	
⚠	D1562	MA4068N/Z1/-T2	ZENER DIODE	
	D1563	1SS133-T2	SI.DIODE	
	D1581	RH1S-T3	SI.DIODE	
⚠	D1582	RGP10J-5025-T3	SI.DIODE	
	D1583	MTZJ9.1C-T2	ZENER DIODE	
	D1602	1SS133-T2	SI.DIODE	
	D1631-34	MTZJ9.1C-T2	ZENER DIODE	
	D1636-37	MTZJ9.1C-T2	ZENER DIODE	
	D1659-60	MTZJ9.1C-T2	ZENER DIODE	
	D1704	1SS133-T2	SI.DIODE	
	D1717-18	MTZJ9.1C-T2	ZENER DIODE	
	D1751	SLR-342VR3F	L.E.D.	
	D1801-02	MTZJ9.1C-T2	ZENER DIODE	
	D1804-05	MTZJ9.1C-T2	ZENER DIODE	
	D1807	MTZJ9.1C-T2	ZENER DIODE	
	D1831-33	MTZJ5.6A-T2	ZENER DIODE	
⚠	D1911	D3SB60	BRIDGE DIODE	
	D1953	1SR35-400A-T2	SI.DIODE	
	D1957	1SS133-T2	SI.DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q1011	2SC5083/L-P/-T	SI.TRANSISTOR	
	Q1023	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1025	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1041	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1221-22	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1261-62	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1272	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1281	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1311	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1321-22	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1351-53	2SC4544-LB	SI.TRANSISTOR	
	Q1371	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1521	2SC2655/Y/-T	SI.TRANSISTOR	
⚠	Q1522	2SD2499-LB	SI.TRANSISTOR	H.OUT
⚠	Q1561	2SC2785/JH/-T	SI.TRANSISTOR	
	Q1562	2SA933AS/QR/-T	SI.TRANSISTOR	
	Q1602	DTC323TK-X	DIGI.TRANSISTOR	
	Q1631-32	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1651-54	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1655	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1701-03	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1704	DTC323TK-X	DIGI.TRANSISTOR	
	Q1801	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1802	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1821-22	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1851	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1952	2SA966/OY/-T	SI.TRANSISTOR	
	Q1953	2SC2412K/QR/-X	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC1101	TB1253AN	I.C.(M)	
	IC1201	TC90A53N	I.C.(DIGI-MOS)	
⚠	IC1421	LA7840	I.C.(MONO-ANA)	
	IC1541	AN7809F	I.C.(MONO-ANA)	
	IC1551	AN7805F	I.C.(MONO-ANA)	
⚠	IC1602	LA4446	I.C.(MONO-ANA)	
	IC1631	TC4066BP/N/	I.C.(DIGI-MOS)	
	IC1651	UPC1851BCU	I.C.(MONO-ANA)	
	IC1652	BA15218N	I.C.(MONO-ANA)	
	IC1701	M37272MA-314SP	I.C.(MICRO-COMP)	
	IC1702	AT24C02-2723Q	I.C.	(SERVICE)
	IC1703	L78LR05E-MA	I.C.(MONO-ANA)	
	IC1751	GP1U281Q	IFR DETECT UNIT	
	IC1801	BA7649A	I.C.(MONO-ANA)	
	IC1821	TC4066BP/N/	I.C.(DIGI-MOS)	
⚠	IC1921	STR30134	I.C.(H)	
	IC1951	AN7809F	I.C.(MONO-ANA)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
		LC30190-001B-A	L.E.D.HOLDER	
	CF1001	QAX0349-001	CERAMIC FILTER	
	CF1021	QAX0639-001Z	CERAMIC FILTER	
	CF1041	QAX0642-001Z	CERAMIC FILTER	
	CF1701	CST8.00MTW	CER.RESONATOR	
	CF1702	QAX0428-001	CER.RESONATOR	
	CL1001	QZW0028-002	WIRE CLAMP	
	CL1002	QZW0028-001	WIRE CLAMP	
⚠	F1902	QMF0007-1R25J1	FUSE	1.25A
⚠	FC1902	CEMG002-001Z	FUSE CLIP	(×2)
⚠	FR1720	QRZ9017-820	F R	82 Ω 1/4W J
	J1001	QNZ0454-001	PIN JACK	
	J1002	QNN0348-001	PIN JACK	
	J1003	QNN0349-002	PIN JACK	
	J1004	QNN0348-001	PIN JACK	
	J1005	QNN0281-003	PIN JACK	
	J1006	QNN0281-002	PIN JACK	
	J1007	QNN0282-001	PIN JACK	
	K1421	QQR0582-001Z	BEADS CORE	
	S1421	QSL4A13-C02	LEVER SWITCH	V.CENTER SW
	S1751	QSW0619-003Z	PUSH SWITCH	MENU
	S1752	QSW0619-003Z	PUSH SWITCH	CH-
	S1753	QSW0619-003Z	PUSH SWITCH	CH+
	S1754	QSW0619-003Z	PUSH SWITCH	VOL-
	S1755	QSW0619-003Z	PUSH SWITCH	VOL+
	S1756	QSW0619-003Z	PUSH SWITCH	POWER
	SF1011	QAX0324-002	SAW FILTER	
⚠	SK1351	QNZ0464-001	C.R.T.SOCKET	
⚠	TU1001	QAU0229-001	TUNER	
	X1201	CE40668-001Z	CRYSTAL	

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POWER P.W. BOARD ASS'Y (SFD-9001A-M2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R9952	QRE121J-222Y	C R	2.2kΩ 1/2W J
	R9953	QRE121J-122Y	C R	1.2kΩ 1/2W J
	R9956	QRE121J-101Y	C R	100Ω 1/2W J
⚠	R9981	QRZ9041-275	C R	2.7MΩ 1/2W K
	CAPACITOR			
⚠	C9901	QFZ9040-104	MF CAP.	0.1μF AC275V M
⚠	C9902	QFZ9040-473	MF CAP.	0.047μFAC275V M
	C9951	QETN1EM-227Z	E CAP.	220μF 25V M
	C9958	QETN1EM-107Z	E CAP.	100μF 25V M
	TRANSFORMER			
⚠	T9901	QQT0198-001	POWER TRANSF.	
	DIODE			
	D9941-44	1SR35-400A-T2	SI.DIODE	
	D9951	MTZJ12C-T2	ZENER DIODE	
	D9954	QRE141J-0R0Y	C R	0.0Ω 1/4W J
	D9958	1SS133-T2	SI.DIODE	
	TRANSISTOR			
	Q9951	2SC1740S/QR/-T	SI.TRANSISTOR	
	OTHERS			
⚠	F9901	QMF0007-6R3J1	FUSE	6.3A
⚠	FC9901	CEMG002-001Z	FUSE CLIP	(×2)
⚠	LF9901	QQR1084-001	LINE FILTER	
⚠	RY9901	QSK0083-001	RELAY	
⚠	TH9901	CEKP007-002	P.THERMISTOR	
⚠	VA9901	ERZV10V621CS	VARISTOR	

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PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y (SFD-1004A-M2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R1001	NRSA63J-473X	MG R	47kΩ 1/16W J
	R1002	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1003-04	NRSA63J-221X	MG R	220Ω 1/16W J
	R1011	NRSA63J-820X	MG R	82Ω 1/16W J
	R1012	NRSA63J-182X	MG R	1.8kΩ 1/16W J
	R1013	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	R1014	QRE121J-101Y	C R	100Ω 1/2W J
	R1015	NRSA63J-180X	MG R	18Ω 1/16W J
	R1016	NRSA63J-270X	MG R	27Ω 1/16W J
	R1018-19	NRSA63J-104X	MG R	100kΩ 1/16W J
	R1020	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R1021	NRSA63J-123X	MG R	12kΩ 1/16W J
	R1022	NRSA63J-151X	MG R	150Ω 1/16W J
	R1024	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1025	NRSA63J-271X	MG R	270Ω 1/16W J
	R1026	NRSA63J-331X	MG R	330Ω 1/16W J
	R1028	NRSA63J-561X	MG R	560Ω 1/16W J
	R1035	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R1041	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R1042-43	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1047	NRSA63J-153X	MG R	15kΩ 1/16W J
	R1048	NRSA63J-154X	MG R	150kΩ 1/16W J
	R1101-02	NRSA63J-101X	MG R	100Ω 1/16W J
	R1111	NRSA63J-105X	MG R	1MΩ 1/16W J
	R1201	NRSA63J-333X	MG R	33kΩ 1/16W J
	R1214	NRSA63J-750X	MG R	75Ω 1/16W J
	R1215	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1221	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1222	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R1223	NRSA63J-153X	MG R	15kΩ 1/16W J
	R1224	NRSA63J-333X	MG R	33kΩ 1/16W J
	R1226	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1227	NRSA63J-181X	MG R	180Ω 1/16W J
	R1228	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R1229	NRSA63J-182X	MG R	1.8kΩ 1/16W J
	R1232	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1233	NRSA63J-474X	MG R	470kΩ 1/16W J
	R1234-35	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1236	NRSA63J-821X	MG R	820Ω 1/16W J
	R1239	NRSA63J-101X	MG R	100Ω 1/16W J
	R1241	NRSA63J-101X	MG R	100Ω 1/16W J
	R1242	NRSA63J-123X	MG R	12kΩ 1/16W J
	R1243	NRSA63J-822X	MG R	8.2kΩ 1/16W J
	R1261	NRSA63J-101X	MG R	100Ω 1/16W J
	R1262	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R1263	NRSA63J-471X	MG R	470Ω 1/16W J
	R1265-66	NRSA63J-681X	MG R	680Ω 1/16W J
	R1271-72	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R1276	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1281	NRSA63J-182X	MG R	1.8kΩ 1/16W J
	R1282	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R1283	NRSA63J-681X	MG R	680Ω 1/16W J
	R1285	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1286	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R1287	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	R1288	NRSA63J-471X	MG R	470Ω 1/16W J
	R1289	NRSA63J-154X	MG R	150kΩ 1/16W J
	R1290	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1291	NRSA63J-561X	MG R	560Ω 1/16W J
	R1301-03	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R1304-06	NRSA63J-101X	MG R	100Ω 1/16W J
	R1311	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1312	NRSA63J-123X	MG R	12kΩ 1/16W J
	R1313	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1314	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1321	NRSA63J-101X	MG R	100Ω 1/16W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R1322	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R1323	NRSA63J-471X	MG R	470Ω 1/16W J
	R1325	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1326	NRSA63J-820X	MG R	82Ω 1/16W J
	R1331	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1351-53	NRSA63J-151X	MG R	150Ω 1/16W J
	R1354-56	NRSA63J-331X	MG R	330Ω 1/16W J
	R1357-59	NRSA63J-101X	MG R	100Ω 1/16W J
	R1360-62	QRZ0111-152	C R	1.5kΩ 1/2W K
	R1363-65	QRL029J-123	OM R	12kΩ 2W J
	R1366-68	NRSA63J-272X	MG R	2.7kΩ 1/16W J
	R1371	NRSA63J-563X	MG R	56kΩ 1/16W J
	R1372	NRSA63J-333X	MG R	33kΩ 1/16W J
	R1373	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R1421	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R1423	NRSA63J-393X	MG R	39kΩ 1/16W J
	R1424	NRSA63J-123X	MG R	12kΩ 1/16W J
	R1426	NRSA63J-223X	MG R	22kΩ 1/16W J
	R1427	QRT029J-1R2	MF R	1.2Ω 2W J
	R1430	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1434	QRE121J-271Y	C R	270Ω 1/2W J
	R1435	QRE121J-102Y	C R	1kΩ 1/2W J
	R1436	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1439-40	NRSA63J-822X	MG R	8.2kΩ 1/16W J
	R1441	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1522	NRSA63J-391X	MG R	390Ω 1/16W J
	R1523	NRSA63J-471X	MG R	470Ω 1/16W J
	R1524	QRE121J-271Y	C R	270Ω 1/2W J
	R1525	QRG01GJ-220	OM R	22Ω 1W J
	R1526	QRL039J-152	OM R	1.5kΩ 3W J
	R1530	QRE121J-681Y	C R	680Ω 1/2W J
	R1541	QRT029J-1R8	MF R	1.8Ω 2W J
	R1542	QRL029J-101	OM R	100Ω 2W J
	R1543-44	QRT039J-1R0	MF R	1.0Ω 3W J
	R1546	QRL029J-220	OM R	22Ω 2W J
	R1551	QRT029J-4R7	MF R	4.7Ω 2W J
	R1552	QRL029J-820	OM R	82Ω 2W J
⚠	R1561	QRK126J-4R7X	C R	4.7Ω 1/2W J
⚠	R1562	NRZ0032-7151X	MF R	7.15kΩ 1/10W±0.5%
⚠	R1563	NRZ0032-2941X	MF R	2.94kΩ 1/10W±0.5%
	R1564	NRSA63J-153X	MG R	15kΩ 1/16W J
	R1565	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1566	NRSA63J-333X	MG R	33kΩ 1/16W J
	R1567	NRSA63J-392X	MG R	3.9kΩ 1/16W J
	R1568	NRSA63J-223X	MG R	22kΩ 1/16W J
	R1571	QRX01GJ-1R5	MF R	1.5Ω 1W J
⚠	R1581	QRJ146J-2R2X	C R	2.2Ω 1/4W J
	R1582	QRL029J-223	OM R	22kΩ 2W J
	R1583	QRE121J-333Y	C R	33kΩ 1/2W J
	R1584	QRE121J-393Y	C R	39kΩ 1/2W J
	R1585	QRE121J-103Y	C R	10kΩ 1/2W J
	R1586	QRE121J-472Y	C R	4.7kΩ 1/2W J
	R1615-16	NRSA63J-123X	MG R	12kΩ 1/16W J
	R1617-18	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R1619-20	NRSA63J-391X	MG R	390Ω 1/16W J
	R1621-22	QRE121J-4R7Y	C R	4.7Ω 1/2W J
	R1623	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1625	NRSA63J-333X	MG R	33kΩ 1/16W J
	R1627	NRSA63J-101X	MG R	100Ω 1/16W J
	R1631	NRSA63J-223X	MG R	22kΩ 1/16W J
	R1632	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R1641-44	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1647-48	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1651	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1652	NRSA63J-153X	MG R	15kΩ 1/16W J
	R1653	NRSA63J-472X	MG R	4.7kΩ 1/16W J

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RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R1654	NRSA63J-333X	MG R	33kΩ 1/16W J
	R1655	NRSA63J-332X	MG R	3.3kΩ 1/16W J
	R1656	NRVA02D-152X	MF R	1.5kΩ 1/10W D
⚠	R1658	NRVA02D-153X	MF R	15kΩ 1/10W D
	R1659	NRSA63J-563X	MG R	56kΩ 1/16W J
	R1660	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	R1661	NRSA63J-473X	MG R	47kΩ 1/16W J
	R1662-65	NRSA63J-123X	MG R	12kΩ 1/16W J
	R1666-67	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	R1668	NRSA63J-473X	MG R	47kΩ 1/16W J
	R1669-70	NRSA63J-471X	MG R	470Ω 1/16W J
	R1673-74	NRSA63J-823X	MG R	82kΩ 1/16W J
	R1675-76	NRSA63J-181X	MG R	180Ω 1/16W J
	R1677	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1678-81	NRSA63J-223X	MG R	22kΩ 1/16W J
	R1682	NRSA63J-683X	MG R	68kΩ 1/16W J
	R1683-84	NRSA63J-561X	MG R	560Ω 1/16W J
	R1685-86	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1691	NRSA63J-563X	MG R	56kΩ 1/16W J
	R1701	NRSA63J-563X	MG R	56kΩ 1/16W J
	R1702-04	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1705	NRSA63J-823X	MG R	82kΩ 1/16W J
	R1706	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1707	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1708	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1710	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1712	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1713	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1714	NRSA63J-471X	MG R	470Ω 1/16W J
	R1715	NRSA63J-105X	MG R	1MΩ 1/16W J
	R1716	NRSA63J-154X	MG R	150kΩ 1/16W J
	R1717	NRSA63J-563X	MG R	56kΩ 1/16W J
	R1719	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1721-22	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1723	NRSA63J-105X	MG R	1MΩ 1/16W J
	R1724	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1725	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1726	NRSA63J-392X	MG R	3.9kΩ 1/16W J
	R1727	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1728	NRSA63J-392X	MG R	3.9kΩ 1/16W J
	R1729	NRSA63J-153X	MG R	15kΩ 1/16W J
	R1730	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R1732	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1733	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1734	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1735	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1737	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R1738	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R1739	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R1740	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R1741	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R1742	NRSA63J-152X	MG R	1.5kΩ 1/16W J
	R1743	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1745-46	NRSA63J-101X	MG R	100Ω 1/16W J
	R1747	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1748	NRSA63J-153X	MG R	15kΩ 1/16W J
	R1751	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1752	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R1753	NRSA63J-153X	MG R	15kΩ 1/16W J
	R1754	NRSA63J-103X	MG R	10kΩ 1/16W J
	R1755	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R1756	NRSA63J-153X	MG R	15kΩ 1/16W J
	R1757-58	NRSA63J-122X	MG R	1.2kΩ 1/16W J
	R1759	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1765-66	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1767	NRSA63J-474X	MG R	470kΩ 1/16W J
	R1768	NRSA63J-473X	MG R	47kΩ 1/16W J
	R1769	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1801	NRSA63J-680X	MG R	68Ω 1/16W J
	R1802-03	NRSA63J-750X	MG R	75Ω 1/16W J
	R1804	NRSA63J-101X	MG R	100Ω 1/16W J
	R1805	NRSA63J-333X	MG R	33kΩ 1/16W J

⚠	Symbol No.	Part No.	Part Name	Description
	R1806-07	NRSA63J-102X	MG R	1kΩ 1/16W J
	R1808	NRSA63J-122X	MG R	1.2kΩ 1/16W J
	R1809	NRSA63J-101X	MG R	100Ω 1/16W J
	R1810	NRSA63J-333X	MG R	33kΩ 1/16W J
	R1821	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	R1822	NRSA63J-223X	MG R	22kΩ 1/16W J
	R1831-33	NRSA63J-750X	MG R	75Ω 1/16W J
	R1851	NRSA63J-101X	MG R	100Ω 1/16W J
	R1852	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	R1853	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	R1854-57	NRSA63J-471X	MG R	470Ω 1/16W J
⚠	R1901	QRF074K-1R2	UNF R	1.2Ω 7W K
	R1921	QRX029J-2R7	MF R	2.7Ω 2W J
⚠	R1923	QRJ146J-470X	UNF C R	47Ω 1/4W J
	R1924	QRN141J-334Y	C R	330kΩ 1/4W J
	R1925	QRN141J-123Y	C R	12kΩ 1/4W J
⚠	R1926	QRF154J-271	UNF R	270 Ω 15W J
⚠	R1927	QRF154J-271	UNF R	270 Ω 15W J
	R1954	QRE121J-102Y	C R	1kΩ 1/2W J
	R1955	NRSA63J-223X	MG R	22kΩ 1/16W J
	R1957	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R1958	NRSA63J-103X	MG R	10kΩ 1/16W J

CAPACITOR

	C1001	QETN1HM-475Z	E CAP.	4.7µF 50V M
	C1002	QETN1HM-106Z	E CAP.	10µF 50V M
	C1003	QETN1CM-227Z	E CAP.	220µF 16V M
	C1005-06	NDC31HJ-5R0X	C CAP.	5.0pF 50V J
	C1011-12	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1014	QETN1CM-107Z	E CAP.	100µF 16V M
	C1015-16	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1021	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C1023	QETN1CM-107Z	E CAP.	100µF 16V M
	C1024	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1025	NCB31HK-102X	C CAP.	1000pF 50V K
	C1026	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C1027	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1028	QETN1HM-106Z	E CAP.	10µF 50V M
	C1030	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1034	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1037	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1038	QETN1CM-107Z	E CAP.	100µF 16V M
	C1041-42	QETN1HM-106Z	E CAP.	10µF 50V M
	C1043-44	NDC31HJ-470X	C CAP.	47pF 50V J
	C1045	QETN1HM-106Z	E CAP.	10µF 50V M
	C1046	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1047	NDC31HJ-330X	C CAP.	33pF 50V J
	C1048	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1111	QETN0JM-108Z	E CAP.	1000µF 6.3V M
	C1112	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1113	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C1114	QETN1HM-105Z	E CAP.	1µF 50V M
	C1115	QFV71HJ-104Z	MF CAP.	0.1µF 50V J
	C1116	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1201	NDC31HJ-100X	C CAP.	10pF 50V J
	C1202	QETN1HM-224Z	E CAP.	0.22µF 50V M
	C1203	NCB31HK-222X	CHIP CAP.	2200pF 50V K
	C1221	QENC1EM-106Z	BP E CAP.	10µF 25V M
	C1222	NDC31HJ-470X	C CAP.	47pF 50V J
	C1223	NDC31HJ-101X	C CAP.	100pF 50V J
	C1224	NDC31HJ-181X	C CAP.	180pF 50V J
	C1225	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C1228	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1233	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1234	QETN1HM-476Z	E CAP.	47µF 50V M
	C1235-36	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1237	QETN1HM-106Z	E CAP.	10µF 50V M
	C1238-39	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1240	NCB31HK-472X	C CAP.	4700pF 50V K
	C1242-44	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1245	NDC31HJ-181X	C CAP.	180pF 50V J
	C1246	QETN1HM-106Z	E CAP.	10µF 50V M

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CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C1247	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1249-52	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1253	QETN1HM-106Z	E CAP.	10µF 50V M
	C1254	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1261	QETN1HM-476Z	E CAP.	47µF 50V M
	C1262	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1265	NDC31HJ-390X	C CAP.	39pF 50V J
	C1271	QETN1HM-106Z	E CAP.	10µF 50V M
	C1281	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C1282	QETN1CM-227Z	E CAP.	220µF 16V M
	C1283	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1284	QETN1HM-225Z	E CAP.	2.2µF 50V M
	C1285	NCB31HK-272X	CHIP CAP.	2700pF 50V K
	C1286	QETN1HM-106Z	E CAP.	10µF 50V M
	C1287	QETN1CM-107Z	E CAP.	100µF 16V M
	C1288	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1311	QETN1HM-106Z	E CAP.	10µF 50V M
	C1312	QFV71HJ-154Z	MF CAP.	0.15µF 50V J
	C1323	NDC31HJ-150X	C CAP.	15pF 50V J
	C1333	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1354-55	NDC31HJ-271X	CER.CAP.	270pF 50V J
	C1356	NDC31HJ-331X	C CAP.	330pF 50V J
	C1357	QETN1CM-107Z	E CAP.	100µF 16V M
	C1371	NCB31HK-103X	C CAP.	0.01µF 50V K
⚠	C1382	QCZ0121-102	C CAP.	1000pF 3kV Z
	C1391	QETN1CM-107Z	E CAP.	100µF 16V M
	C1392	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1393-95	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1421	NCB31HK-102X	C CAP.	1000pF 50V K
	C1422	NCB31HK-472X	C CAP.	4700pF 50V K
	C1424	QETN1VM-107Z	E CAP.	100µF 35V M
	C1425	QETN1VM-477Z	E CAP.	470µF 35V M
	C1427	QETN1HM-225Z	E CAP.	2.2µF 50V M
	C1428	QETM1EM-228	E CAP.	2200µF 25V M
	C1431	QFLC1HJ-563Z	M CAP.	0.056µF 50V J
	C1435	NCB21HK-223X	C CAP.	0.022µF 50V K
	C1437	QETN1HM-106Z	E CAP.	10µF 50V M
	C1521	NCB31HK-332X	CHIP CAP.	3300pF 50V K
	C1522	NCB31HK-822X	CHIP CAP.	8200pF 50V K
	C1523	QEM61HK-105Z	E CAP.	1µF 50V K
⚠	C1524	QFZ0198-133	MPP CAP.	0.013µF1.5kVH±3%
⚠	C1525	QEZ0203-107	E CAP.	100µF 160V M
⚠	C1526	QFZ0119-434	MPP CAP.	0.43µF 200V ±3%
	C1527	QCB32HK-561Z	C CAP.	560pF 500V K
	C1543	QETN1VM-477Z	E CAP.	470µF 35V M
	C1545	QETN1CM-227Z	E CAP.	220µF 16V M
	C1546	QETN1CM-477Z	E CAP.	470µF 16V M
	C1548	QETN1CM-227Z	E CAP.	220µF 16V M
	C1551	QETN1CM-227Z	E CAP.	220µF 16V M
	C1552	QETN1CM-107Z	E CAP.	100µF 16V M
	C1561	QETN1HM-106Z	E CAP.	10µF 50V M
	C1562	QETN1HM-475Z	E CAP.	4.7µF 50V M
	C1563	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1581	QETN2EM-106Z	E CAP.	10µF 250V M
	C1582	NCB21HK-473X	C CAP.	0.047µF 50V K
	C1584	QFLC1HJ-473Z	M CAP.	0.047µF 50V J
	C1611-12	QETN1HM-105Z	E CAP.	1µF 50V M
	C1614	QETN1EM-227Z	E CAP.	220µF 25V M
	C1615	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	C1616	QENC1HM-474Z	BP E CAP.	0.47µF 50V M
	C1617	QETN1EM-476Z	E CAP.	47µF 25V M
	C1618	QETN1CM-107Z	E CAP.	100µF 16V M
	C1619	QETN1CM-477Z	E CAP.	470µF 16V M
	C1620	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1621	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
	C1622	QENC1HM-474Z	BP E CAP.	0.47µF 50V M
	C1623	QETN1EM-476Z	E CAP.	47µF 25V M
	C1624	QETN1CM-107Z	E CAP.	100µF 16V M
	C1625	QETN1CM-477Z	E CAP.	470µF 16V M
	C1626	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1627	QETN1CM-107Z	E CAP.	100µF 16V M
	C1641-42	QETN1HM-106Z	E CAP.	10µF 50V M

⚠	Symbol No.	Part No.	Part Name	Description
	C1645-48	QETN1HM-106Z	E CAP.	10µF 50V M
	C1651	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1652	QETN1CM-107Z	E CAP.	100µF 16V M
	C1653	QETN1EM-476Z	E CAP.	47µF 25V M
	C1654	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1655	QENC1HM-475Z	BP E CAP.	4.7µF 50V M
	C1656	QENC1HM-105Z	BP E CAP.	1µF 50V M
	C1657	QETN1HM-225Z	E CAP.	2.2µF 50V M
	C1658	NCB21HK-473X	C CAP.	0.047µF 50V K
	C1659	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C1660-61	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1662	QBTC1CK-335Z	TAN.CAP.	3.3µF 16V K
	C1663	QETN1HM-105Z	E CAP.	1µF 50V M
	C1664	QBTC1CK-106Z	TAN.CAP.	10µF 16V K
	C1665-66	QETN1HM-105Z	E CAP.	1µF 50V M
	C1667	QETN1HM-336Z	E CAP.	33µF 50V M
	C1668	QETN1HM-105Z	E CAP.	1µF 50V M
	C1669-70	QENC1HM-105Z	BP E CAP.	1µF 50V M
	C1671	QETN1HM-225Z	E CAP.	2.2µF 50V M
	C1672	NCB31HK-222X	CHIP CAP.	2200pF 50V K
	C1673	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1674	QETN1HM-225Z	E CAP.	2.2µF 50V M
	C1675	NCB31HK-222X	CHIP CAP.	2200pF 50V K
	C1676	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1679	QETN1HM-105Z	E CAP.	1µF 50V M
	C1680	QETN1EM-476Z	E CAP.	47µF 25V M
	C1682-83	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C1701	NDC31HJ-560X	C CAP.	56pF 50V J
	C1703	NCB31HK-102X	C CAP.	1000pF 50V K
	C1704	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1705	NDC31HJ-151X	C CAP.	150pF 50V J
	C1706	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1707	QETN1HM-105Z	E CAP.	1µF 50V M
	C1708	NCS21HJ-221X	C CAP.	220pF 50V J
	C1709	NCS21HJ-102X	C CAP.	1000pF 50V J
	C1710	NDC31HJ-681X	C CAP.	680pF 50V J
	C1711	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C1712	NCB31HK-102X	C CAP.	1000pF 50V K
	C1714	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1716	QETN1EM-476Z	E CAP.	47µF 25V M
	C1717	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1718	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1719-20	QETN1CM-107Z	E CAP.	100µF 16V M
	C1721	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1722-23	NDC31HJ-5R0X	C CAP.	5.0pF 50V J
	C1724	NCB31HK-103X	C CAP.	0.01µF 50V K
	C1725	QETN1AM-227Z	E CAP.	220µF 10V M
	C1751	QETN1EM-476Z	E CAP.	47µF 25V M
	C1801-02	QETN1HM-106Z	E CAP.	10µF 50V M
	C1803	QETN1HM-105Z	E CAP.	1µF 50V M
	C1804-05	QETN1HM-106Z	E CAP.	10µF 50V M
	C1808	QETN1EM-476Z	E CAP.	47µF 25V M
	C1809-10	QETN1HM-106Z	E CAP.	10µF 50V M
	C1831-33	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
⚠	C1911	QCZ9054-102	C CAP.	1000pFAC250V Z
⚠	C1912	QCZ9054-102	C CAP.	1000pFAC250V Z
⚠	C1913	QCZ9054-102	C CAP.	1000pFAC250V Z
⚠	C1914	QEZ0429-477	E CAP.	470µF 200V M
	C1921	QEHR2CM-335Z	E CAP.	3.3µF 160V M
	C1922	QEHQ2CM-336	E CAP.	33µF 160V M
	C1953	QETN1EM-107Z	E CAP.	100µF 25V M
	C1954	NCB21HK-473X	C CAP.	0.047µF 50V K
	C1956	QETN1HM-106Z	E CAP.	10µF 50V M
	C1959	QETN1HM-336Z	E CAP.	33µF 50V M
⚠	C1981	QCZ9074-103	C CAP.	0.01µFAC250V M
⚠	C1982	QCZ9074-103	C CAP.	0.01µFAC250V M

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name
⚠	T1521	CE41106-00CJ1	DRIVE TRANSF.
⚠	T1522	QQH0028-001	H.V.TRANSF.

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COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L1012	QQLZ014-R39	PEAKING COIL	
	L1022	QQL244K-220Z	PEAKING COIL	
	L1042	QQL244K-220Z	PEAKING COIL	
	L1221	QQL244K-4R7Z	COIL	4.7µH K
	L1235	QQL244K-4R7Z	COIL	4.7µH K
	L1262	QQL244K-150Z	COIL	15µH K
	L1321	QQL244K-150Z	COIL	15µH K
	L1381	QQL03BJ-390Z	COIL	39µH J
	L1521	CELL004-001	LINEARITY COIL	

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D1001	MTZJ33A-T2	ZENER DIODE	
	D1021	MTZJ9.1C-T2	ZENER DIODE	
	D1301-06	1SS133-T2	SI.DIODE	
	D1311	MTZJ9.1C-T2	ZENER DIODE	
	D1312	1SS133-T2	SI.DIODE	
	D1421	1N4003-T2	SI.DIODE	
	D1422	MTZJ75-T2	ZENER DIODE	
	D1423	1SS133-T2	SI.DIODE	
⚠	D1541	RGP10J-5025-T3	SI.DIODE	
	D1542	1SR35-400A-T2	SI.DIODE	
⚠	D1543	RGP10J-5025-T3	SI.DIODE	
⚠	D1544	RGP10J-5025-T3	SI.DIODE	
	D1561	1SS81-T2	SI.DIODE	
⚠	D1562	MA4068N/Z1/-T2	ZENER DIODE	
	D1563	1SS133-T2	SI.DIODE	
	D1581	RH1S-T3	SI.DIODE	
⚠	D1582	RGP10J-5025-T3	SI.DIODE	
	D1583	MTZJ9.1C-T2	ZENER DIODE	
	D1602	1SS133-T2	SI.DIODE	
	D1631-34	MTZJ9.1C-T2	ZENER DIODE	
	D1636-37	MTZJ9.1C-T2	ZENER DIODE	
	D1659-60	MTZJ9.1C-T2	ZENER DIODE	
	D1704	1SS133-T2	SI.DIODE	
	D1717-18	MTZJ9.1C-T2	ZENER DIODE	
	D1751	SLR-342VR3F	L.E.D.	
	D1801-02	MTZJ9.1C-T2	ZENER DIODE	
	D1804-05	MTZJ9.1C-T2	ZENER DIODE	
	D1807	MTZJ9.1C-T2	ZENER DIODE	
	D1831-33	MTZJ5.6A-T2	ZENER DIODE	
⚠	D1911	D3SB60	BRIDGE DIODE	
	D1953	1SR35-400A-T2	SI.DIODE	
	D1957	1SS133-T2	SI.DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q1011	2SC5083/L-P/-T	SI.TRANSISTOR	
	Q1023	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1025	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1041	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1221-22	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1261-62	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1272	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1281	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1311	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1321-22	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1351-53	2SC4544-LB	SI.TRANSISTOR	
	Q1371	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1521	2SC2655/Y/-T	SI.TRANSISTOR	
⚠	Q1522	2SD2499-LB	SI.TRANSISTOR	H.OUT
⚠	Q1561	2SC2785/JH/-T	SI.TRANSISTOR	
	Q1562	2SA933AS/QR/-T	SI.TRANSISTOR	
	Q1602	DTC323TK-X	DIGI.TRANSISTOR	
	Q1631-32	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1651-54	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1655	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1701-03	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1704	DTC323TK-X	DIGI.TRANSISTOR	
	Q1801	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1802	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1821-22	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1851	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1952	2SA966/OY/-T	SI.TRANSISTOR	
	Q1953	2SC2412K/QR/-X	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC1101	TB1253AN	I.C.(M)	
	IC1201	TC90A53N	I.C.(DIGI-MOS)	
⚠	IC1421	LA7840	I.C.(MONO-ANA)	
	IC1541	AN7809F	I.C.(MONO-ANA)	
	IC1551	AN7805F	I.C.(MONO-ANA)	
⚠	IC1602	LA4446	I.C.(MONO-ANA)	
	IC1631	TC4066BP/N/	I.C.(DIGI-MOS)	
	IC1651	UPC1851BCU	I.C.(MONO-ANA)	
	IC1652	BA15218N	I.C.(MONO-ANA)	
	IC1701	M37272MA-314SP	I.C.(MICRO-COMP)	
	IC1702	AT24C02-27230	I.C.	(SERVICE)
	IC1703	L78LR05E-MA	I.C.(MONO-ANA)	
	IC1751	GP1U281Q	IFR DETECT UNIT	
	IC1801	BA7649A	I.C.(MONO-ANA)	
	IC1821	TC4066BP/N/	I.C.(DIGI-MOS)	
⚠	IC1921	STR30134	I.C.(H)	
	IC1951	AN7809F	I.C.(MONO-ANA)	

OTHERS

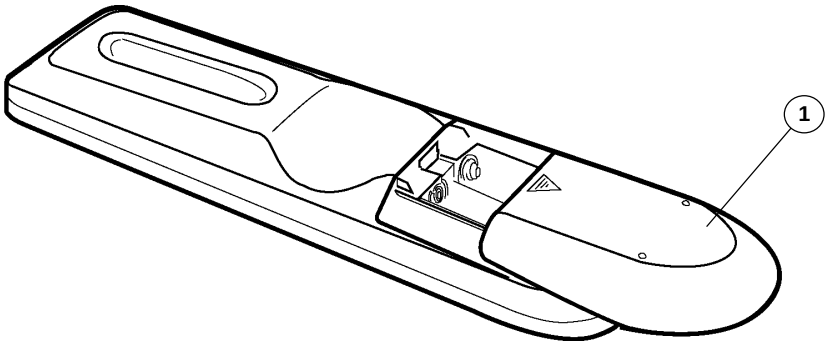
⚠	Symbol No.	Part No.	Part Name	Description
		LC30190-001B-A	L.E.D.HOLDER	
	CF1001	QAX0349-001	CERAMIC FILTER	
	CF1021	QAX0639-001Z	CERAMIC FILTER	
	CF1041	QAX0642-001Z	CERAMIC FILTER	
	CF1701	CST8.00MTW	CER.RESONATOR	
	CF1702	QAX0428-001	CER.RESONATOR	
	CL1001	QZW0028-002	WIRE CLAMP	
	CL1002	QZW0028-001	WIRE CLAMP	
⚠	F1902	QMF0007-1R25J1	FUSE	1.25A
⚠	FC1902	CEMG002-001Z	FUSE CLIP	(×2)
⚠	FR1720	QRZ9017-820	F R	82 Ω 1/4W J
	J1001	QNZ0454-001	PIN JACK	
	J1002	QNN0348-001	PIN JACK	
	J1003	QNN0349-002	PIN JACK	
	J1004	QNN0348-001	PIN JACK	
	J1005	QNN0281-003	PIN JACK	
	J1006	QNN0281-002	PIN JACK	
	J1007	QNN0282-001	PIN JACK	
	K1421	QQR0582-001Z	BEADS CORE	
	S1421	QSL4A13-C02	LEVER SWITCH	V.CENTER SW
	S1751	QSW0619-003Z	PUSH SWITCH	MENU
	S1752	QSW0619-003Z	PUSH SWITCH	CH-
	S1753	QSW0619-003Z	PUSH SWITCH	CH+
	S1754	QSW0619-003Z	PUSH SWITCH	VOL-
	S1755	QSW0619-003Z	PUSH SWITCH	VOL+
	S1756	QSW0619-003Z	PUSH SWITCH	POWER
	SF1011	QAX0324-002	SAW FILTER	
⚠	SK1351	CE42446-001	C.R.T.SOCKET	
⚠	TU1001	QAU0229-001	TUNER	
	X1201	CE40668-001Z	CRYSTAL	

POWER P.W. BOARD ASS'Y (SFD-9001A-M2)

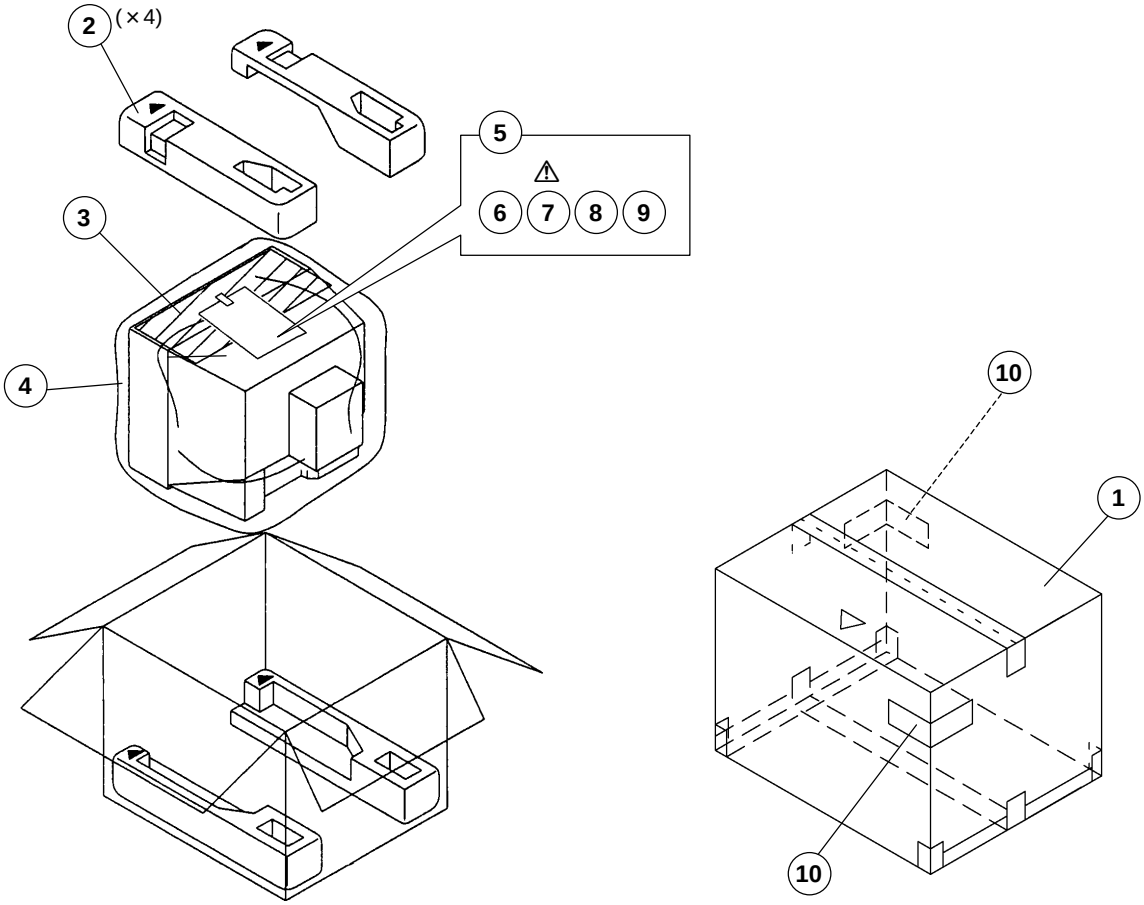
Refer to PARTS LIST in page 38 for this P.W. board.

REMOTE CONTROL UNIT PARTS LIST (RM-C306-1A)

⚠ Ref.No.	Part No.	Part Name	Description
1	UR52EC1286A	BATTERY COVER	(RM-C306-1A)



PACKING



PACKING PARTS LIST

AV-27230/S

⚠	Ref.No.	Part No.	Part Name	Description
	1	LC10181-017A-A	PACKING CASE	
	2	LC10083-002A-A	CUSHION ASSY	4pcs in 1set
	3	CP30055-001-A	TOP COVER	
	4	CP30056-008-A	POLY BAG	
	5	QPAO2503505	POLY BAG	
	6	RM-C306-1A	REMOCON UNIT	
⚠	7	LCT0924-001A-A	INST.BOOK	
	8	BT-52004-1Q	WARRANTY CARD	
	9	BT-51020-1Q	REGISTER CARD	
	10	CM36616-001-A	CORNER LABEL	2pcs in 1set

AV-27230/R

⚠	Ref.No.	Part No.	Part Name	Description
	1	LC10181-017A-A	PACKING CASE	
	2	LC10083-002A-A	CUSHION ASSY	4pcs in 1set
	3	CP30055-001-A	TOP COVER	
	4	CP30056-008-A	POLY BAG	
	5	QPAO2503505	POLY BAG	
	6	RM-C306-1A	REMOCON UNIT	
⚠	7	LCT0924-001A-A	INST.BOOK	
	8	BT-52004-1Q	WARRANTY CARD	
	9	BT-51020-1Q	REGISTER CARD	
	10	CM36616-001-A	CORNER LABEL	2pcs in 1set